

PREVIOUS YEARS'  
**ACTUAL  
SNAP PAPERS**  
2013, 2014, 2015, 2016

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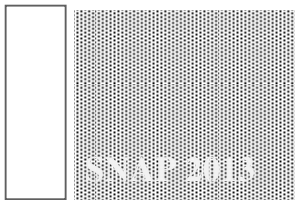
**WITH ANSWER KEY &  
EXPLANATIONS**

## SECTION – I

## QUANTITATIVE, DATA INTERPRET. & DATA SUFFICIENCY

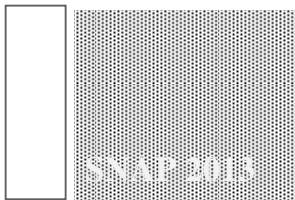
**Number of questions: 40**

- Dinesh can do a piece of work in 15 days, Harish can do it in 12 days. Dinesh, Harish and Subodh can together do it in 4 days. In how many days can Subodh alone do this work?  
1. 12                      2. 15                      3. 10                      4. 8
- A village has 2000 people out of which 1100 are male and 900 female. The overall literacy rate is 95%, while only 3 % male are not literate. What percentage of the female population is literate?  
1. 92.55%                      2. 93.65%                      3. 94%                      4. None of the above
- A sum of money is sufficient to pay Ravi's wage for 18 days or Ajit's wage for 12 days. The same money is sufficient to pay the wages of both for how many days?  
1. 9 days                      2. 8.5 days                      3. 7.2 days                      4. 5.5 days
- What is the number to be added to  $\frac{1}{4}$  of 30% of 120 so that it is 50% more than 25% of 40?  
1. 6                      2. 7                      3. 5                      4. 4
- 10 years ago the average age of all 25 teachers of a school was 45 years. 4 years ago one teacher retired from her post at the age of 58. After one year a new teacher whose age was 54 years was recruited from outside. The present average age of all the teachers is:  
1.  $55\frac{17}{25}$                       2.  $54\frac{4}{5}$                       3.  $54\frac{18}{25}$                       4.  $49\frac{1}{2}$
- X can complete a task in 15 days and Y can complete the same task in 20 days. X started the task alone and after 5 days Y joins X. After working together for three days, X had to leave the work. How long does it take for Y to complete the remaining work?  
1. 4.5 days                      2. 5.3 days                      3. 2.5 days                      4. 6.3 days
- Find out the value of  $[(2.093+0.089)^2 - (2.093-0.089)^2] / [(2.093)(0.089)]$   
1. 4                      2. 3.79                      3. 4.12                      4. 2.09
- In a triangle ABC the measure of angle A is  $50^\circ$  and the external bisectors of angle B and angle C meet at O. The measure of angle BOC is  
1.  $140^\circ$                       2.  $40^\circ$                       3.  $105^\circ$                       4.  $65^\circ$
- The average salary of all the 60 employees in an office is Rs. 12000/- per month. If the number of executives is twice the number of non-executive employees, then the average salary of all the non-executive employee is:  
1. Rs. 9000/-                      2. Rs. 8000/-                      3. Rs. 6000/-                      4. Cannot be determined

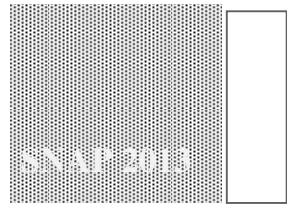


10. Two pots A and B contain syrup and water in the ratio 3:7 and 5:2 respectively. Find the ratio in which these mixtures be mixed to get a new mixture containing syrup and water in the ratio of 2:3?
1. 22:7                      2. 4:3                      3. 16:9                      4. None of the above
11. A truck carrying goods has travelled for 3 days. The 1<sup>st</sup> day it travelled for 12 hours at an average speed of 40 km/hour, the 2<sup>nd</sup> day it travelled for 10 hours at an average speed of 50 km/hour, the third day it completed 360 kilometres travelling for 8 hours. The average speed of the truck in km/hour for all the three days is:
1. 45.22                      2. 49.58                      3. 43.73                      4. 44.66
12. The H.C.F of two numbers is 8 and their L.C.M is 96. If one of the numbers is 32, then the other is
1. 24                      2. 42                      3. 16                      4. None of the above
13. The ratio between present age of A and B is 3:4. The present age of B is 10 years more than the age of A 5 years ago. Find out the present age of B.
1. 12                      2. 17                      3. 20                      4. None of the above
14. The circumference of the front wheels of a vehicle is 3.5 metres, and that of the back wheels is 3.0 metres. If the vehicle is moving at a speed of 54 km/hr, the shortest time in which both the wheels will make a whole number of turns is
1. 6.4 seconds                      2. 4 seconds                      3. 2.1 seconds                      4. 1.4 seconds
15. If p is 81 % of q, what percentage of p is q?
1. 81%                      2. 101.9%                      3. 112.3%                      4. 123.45%
16. The length of a rectangular plot is 15 metres more than its breadth. If the cost of fencing the plot is Rs. 2700 at the rate of Rs. 30 per metre, what is the length of the plot in metres?
1. 25                      2. 35                      3. 30                      4. None of the above
17. In a class, 70% of the students opted for History, 45% of the students opted for Geography, and 20 % opted for neither History nor Geography. What percentage of the class opted for both the subjects?
1. 35%                      2. 25%                      3. 30%                      4. 20%
18. A boy lying on the ground 1000 ft away from a multistoried building, can see the top of the building exactly in line with the top of a 10 ft tall flag post. If the flag post is 20 ft away from the boy, what is the height of the building?
1. 500 ft                      2. 600 ft                      3. 800 ft                      4. 1000 ft
19. 21 boys turn out for an NCC parade. Of these 19 are wearing NCC caps and 11 are wearing NCC shoes. There are no boys without one or the other. How many boys are wearing the full uniform?
1. 2                      2. 6                      3. 9                      4. 10
20. A number is increased by 20% and then is reduced by 20%. The number
1. does not change                      2. decreases by 4%                      3. increases by 4%                      4. increases by 8%

- 21.** In a class of 42, there are 22 boys and 20 girls. The class teacher has to appoint a girl monitor and a boy monitor. In how many ways can the selection be made?
1. 22                                      2. 420                                      3. 42                                      4. 440
- 22.** Arvind and Mohan are 20 km apart. If they travel in opposite directions, they meet each other after half an hour. If they travel in the same direction, they meet after 2 hours. If Arvind travels faster than Mohan, his speed is
1. 15km/hr                                      2. 20 km/hr                                      3. 25 km/hr                                      4. 30 km/hr
- 23.** Let  $A = \{1, 2, 3, 4, 5, 6\}$   
How many subsets of A can be formed with just two elements, one even and one odd?
1. 6                                      2. 8                                      3. 9                                      4. 10
- 24.** A grocer sells a soap marked Rs 30/- at 15% discount and gives a shampoo sachet costing Rs 1.5 free with each soap. He then makes 20% profit. His cost price per soap is
1. Rs 15                                      2. Rs 16                                      3. Rs 18                                      4. Rs.20
- 25.** Which one of the following is correct?
1.  $\log(m + n) = \log m + \log n$                                       2.  $\log(m - n) = \log m - \log n$   
3.  $\log(m \times n) = \log m + \log n$                                       4.  $\log m^n = (\log m)^n$
- 26.** The sum of two numbers is 15; their product is 30. The sum of their reciprocals is
1. 2                                      2.  $1/3$                                       3.  $1/2$                                       4.  $4/15$
- 27.** Three persons Amar, Akbar and Anthony agree to pay their hotel bills in the ratio of 3:4:5. Amar pays the first day's bill which amounts to Rs.26.85/-. Akbar pays the second day's bill which amounts to Rs.42.75/- and Anthony pays the third day's bill which amounts to Rs.53/-. When they settle their accounts, which of the following happens?
1. Amar gives Rs.3/- to Anthony  
2. Akbar gives Rs.2/- to Amar  
3. Amar gives Akbar Rs. 1.95/- and Rs.2/- to Anthony.  
4. None of the above
- 28.** Inspired by the 'Golden quadrilateral project', the UP Government recently accomplished a diamond triangular project. Under this project the State Government laid down 6 lane roads connecting three cities Ayodhya, Banaras and Chitrakoot, which are equally separated from each other i.e. in terms of geometry they form an equilateral triangle. Angad and Bajrang start simultaneously from Ayodhya and Banaras respectively, towards Chitrakoot. When Angad covers 100 kms, Bajrang covers such a distance that the distance between Angad and Bajrang makes  $90^\circ$  angle with the road joining Banaras to Chitrakoot. When Bajrang reaches Chitrakoot, Angad is still 150 km away from Chitrakoot.
- What is the distance between Ayodhya and Chitrakoot?
1. 250 km                                      2. 450 km                                      3. 300 km                                      4. None of the above
- 29.**  $(1 - 1/2)(1 - 1/3)(1 - 1/4)(1 - 1/5) \dots \dots \dots (1 - 1/40) = X/40$   
What is the value of X?
1. 13                                      2. 39                                      3. 21                                      4. 1



30. The smallest number which when divided by 12, 16, 18 gives 7 as remainder in each case, is
1. 103                      2. 135                      3. 151                      4. 187
31. If  $(a/b)^{2x-3} = (b/a)^{x-9}$ , then x is equal to
1. -6                      2. -2                      3. 12                      4. 4
32. The population of vultures in a locality decreases by a certain rate (compounded annually). If the current population of vultures 29160 and the ratio of the decrease in population for the first and second year and second and third year be 10:9, what was the population of vultures 3 years ago?
1. 30000                      2. 35000                      3. 40000                      4. 50000
33. Anna sold his car to Boney at a profit of 20% and Boney sold it to Chakori at a profit of 10%. Chakori sold it to a mechanic at a loss of 9.09%. The mechanic spent 10% of his purchase price on repairs and then sold it at a profit of 8.33% to Anna's profit/ loss as %age of initial CP is-
1. Anna's loss is 23%    2. Anna's loss is 29%    3. Anna's gain is 5%    4. Anna's gain is 4%
34. A circle and a square have the same perimeter. Then
1. The area of the circle is greater than that of the square  
2. The area of the square is  $1/\pi$  times that of the circle  
3. The area of the square is greater than that of a circle  
4. The areas are equal
35. Two taps A and B can fill a cistern in 15 hours and 10 hours respectively. Tap C can empty full cistern in 30 hours. All the three taps were opened for 2 hours, when it was remembered that the emptying tap had been left open, it was then closed.
- How many hours more would it take for the cistern to be filled?
1. 4.4 hours                      2. 1.2 hours                      3. 2.4 hours                      4. None of these
36. At Atharva Prakashan every book goes through 3 phases – typing, composing and binding. There are 16 typists, 10 composers and 15 binders. A typist can type 8 books in each hour, a composer can compose 12 books in each hour and a binder can bind 12 books in each hour. All the people at Atharva Prakashan work for 10 hours a day and each person is trained to do only one type of job.
- How many books can be prepared in each day?
1. 1500                      2. 1200                      3. 1440                      4. 1380
37. A contractor employed a certain number of workers to finish constructing a road in a certain scheduled time. Sometime later, when a part of work had been completed, he realized that the work would be delayed by three-fourth of the scheduled time. So, he at once doubled the number of workers and thus he managed to finish the road on the scheduled time. How much work had been completed before increasing the number of workers?
1.  $\frac{77}{9}\%$                       2.  $\frac{100}{7}\%$                       3. 20%                      4. None of the above



**DIRECTIONS for questions 38 to 40:** Read the information given below and answer the questions.

A train enters into a tunnel AB at A and exits at B. A jackal is sitting at O in another by pass tunnel AOB, which is connected to AB at A and B, where OA is perpendicular to OB. A cat is sitting at P inside the tunnel AB making the shortest possible distance between O and P, such that  $AO:PB = 30:32$ . A train before entering into the tunnel AB blows the whistle (or siren) somewhere before A. On hearing the whistle, if the jackal and the cat run towards A, they would meet with an accident with the train exactly at A, the entrance to the tunnel. Further if the jackal moves towards B instead of A (on hearing the whistle) it would again meet with an accident exactly at B, the exit of the tunnel, with the same train coming from the same direction.

**38.** What is the ratio of speeds of the Jackal and the Cat?

1. 4 : 3                      2. 5 : 3                      3. 1 : 1                      4. None of the above

**39.** The ratio of speeds of the Jackal to the train is:

1. 5 : 1                      2. 3 : 5                      3. 1 : 5                      4. None of the above

**40.** If the tunnels were to be connected from O to P and the Jackal moves from O to A through P, it will meet with train at M. Then AM is:

1. 20 kms                      2. 16 kms                      3. 10 kms                      4. None of the above

**Number of questions: 40**

1. Disgrephia                      2. Disgrephia                      3. Dysgraphya                      4. Dysgraphia

48. PANGERYRIC means "to pay tribute to". The underlined word is spelt incorrectly. Mark the correct spelling

1. panegyric                      2. Penagyric                      3. Penagiryc                      4. none of the above

**DIRECTIONS for questions 49 and 50:** Identify two most appropriate options from those given below that can complete the sentence without changing the meaning

49. I \_\_\_\_\_ scorpions, they are diabolic.

- i. Hate              ii. Scare              iii. Loathe              iv. Wary              v. Cagey

1. i, v                      2. v, iii                      3. i, iii                      4. ii, iv

50. To fully understand (A) \_\_\_\_\_ work such as George Orwell's Animal Farm, one must be able to differentiate (B) \_\_\_\_\_ events of the plot from the abundant extended metaphors.

Blank A	Blank B
i. an allegorical	iv. literal
ii. a tragic	v. superficial
iii. a euphemistic	vi. figurative

1. ii, iv                      2. i, iv                      3. iii, iv                      4. i, v

**DIRECTION for question 51:** Find out the two words that are nearly the same or opposite in meaning and indicate the correct combination provided in the four options.

51. I. attenuate                      II. repent                      III. Make thin                      IV. Force

1. I-III                      2. III-II                      3. II-IV                      4. I-II

**DIRECTION for question 52:** Choose the word nearest in meaning to the word underlined.

52. A rapier is a

1. baton                      2. rascal                      3. quick sharp hit                      4. long thin light sword

**DIRECTIONS for questions 53 and 54:** Choose the correct alternatives for the following idioms.

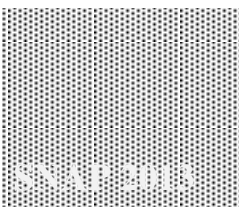
53. Raise Cain

1. re-incarnate                      2. cause trouble                      3. bring up                      4. look after

54. Go to seed

1. harvesting                      2. planting  
3. become unfit and run down                      4. financial ruin





**DIRECTIONS for questions 55 to 58:** Read the following passage and answer the questions that follow.

The next ingredient is a very remarkable one: Good Temper. "Love is not easily provoked". Nothing could be more striking than to find this here. We are inclined to look upon bad temper as a very harmless weakness. We speak of it as a mere infirmity of nature, a family failing, a matter of temperament, not a thing to take into very serious account in estimating a man's character. And yet here, right in the heart of this analysis of love, it finds a place; and the Bible again and again returns to condemn it as one of the most destructive elements in human nature. The peculiarity of ill temper is that it is the vice of the virtuous. It is often the one blot on an otherwise noble character. You know men who are all but perfect, and women who would be entirely perfect, but for an easily ruffled quick-temper or "touchy" disposition. This compatibility of ill temper with high moral character is one of the strongest and saddest problems of ethics. The truth is there are two great classes of sins—sins of the Body, and sins of disposition. The prodigal son may be taken as a type of the first, the Elder Brother of the second. Now society has no doubt whatever as to which of these is the worse. Its brand falls, without a challenge, upon the Prodigal. But are we right? We have no balance to weigh one another's sins, and coarser and finer are but human words; but faults in the higher nature may be less venial than those in the lower, and to the eye of Him who is love, a sin against love may seem a hundred times more base. No form of vice, not worldliness, not greed of gold, not drunkenness itself does more to un-christianise society than evil temper. For embittering life, for breaking up communities, for destroying the most sacred relationships, for devastating homes, for withering up men and women, for taking the bloom off childhood; in short for sheer gratuitous misery-producing power, this influence stands alone. Jealousy, anger, pride, uncharity, cruelty, self-righteousness, touchiness, doggedness, sullenness—in varying properties these are the ingredients of all ill temper. Judge if such sins of disposition are not worse to live in, and for others to live with than sins of the body. There is really no place in Heaven for a disposition like this. A man with such a mood could only make Heaven miserable for all the people in it.

**Excerpts from passages by Henry Drummond.**

**55.** What is the popular notion about bad temper?

- |                           |                                   |
|---------------------------|-----------------------------------|
| 1. It is a serious malady | 2. it is a harmless weakness      |
| 3. it is a peculiarity    | 4. it shows strength of character |

**56.** What does the word "venial" mean?

- |                              |              |
|------------------------------|--------------|
| 1. forgivable sin or mistake | 2. deer meat |
| 3. wicked                    | 4. Insect    |

**57.** The Bible condemns which of the following as one of the most destructive elements in human nature?

- |          |             |                    |              |
|----------|-------------|--------------------|--------------|
| 1. anger | 2. laziness | 3. procrastination | 4. splurging |
|----------|-------------|--------------------|--------------|

**58.** Find the exact word in the passage which means easily or quickly offended.

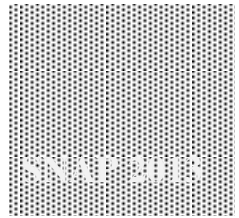
- |              |                       |               |          |
|--------------|-----------------------|---------------|----------|
| 1. Uncharity | 2. self righteousness | 3. touchiness | 4. pride |
|--------------|-----------------------|---------------|----------|

**DIRECTIONS for question 59:** Fill in the blank with the correct option.

**59.** "If you are morose," you feel \_\_\_\_\_

- |            |           |             |           |
|------------|-----------|-------------|-----------|
| 1. excited | 2. sleepy | 3. peaceful | 4. gloomy |
|------------|-----------|-------------|-----------|

**DIRECTIONS for questions 60 and 61:** Name the part of speech of the underlined word in the following sentences.



60. We scored as many goals as them.

1. conjunction                      2. pronoun                      3. adverb                      4. preposition

61. There is more evidence yet to be offered.

1. verb                      2. adverb                      3. preposition                      4. none of the above

**DIRECTIONS for question 62:** Identify a synonym to replace the underlined word (s).

62. The baby is in the carrying basket.

1. bassinet                      2. tub                      3. baby bag                      4. Perambulator

**DIRECTION for question 63:** Which of the following does not denote the underlined word(s)?

63. The festival of Christmas.

1. Noel                      2. Yule                      3. Crimbo                      4. Halloween

64. Choose the correct option to fill in the blank with the correct grammatical usage.

He has his finger \_\_\_\_\_ the pulse of the nation.

1. in                      2. below                      3. on                      4. over

65. Identify the error in the following sentence by choosing from the given alternatives

"Where do you live" asked the stranger?

1. an exclamation should be used instead of a question mark  
2. the question mark should be used inside the quotation marks  
3. the question mark should be used outside the quotation marks  
4. none of the above

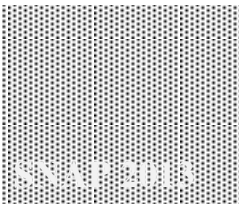
**DIRECTIONS for questions 66 and 67:** In each of the following questions, the part of the sentence which is in capitals and has been underlined may have an error. Correct the error.

66. Unless he DOES NOT GIVE UP smoking, we cannot be sure of any improvement in his health

1. has not given up                      2. gives up                      3. did not give up                      4. no improvement

67. A recently carried out meta-analysis of two decades of published research DOES NOT SUGGEST THAT THERE SHOULD BE AN ASSOCIATION BETWEEN COFFEE DRINKING AND CORONARY AILMENTS.

1. suggests that there is no association between coffee drinking and coronary ailments.  
2. any association between and coronary ailments is not suggested.



3. shows that coffee drinking should not be suggested to have an association with coronary ailments.
4. suggests the association between coffee drinking and coronary ailments on a macro level.

**68. In the following sentences, the order of the sentences has been jumbled up. Make the best choice to find out the correct sequence so as to form a meaningful paragraph**

- A. The following represents a condensed statement of what we think we now know about the relationship between education and employment
- B. Although the linkages between education and employment are complex, and in the past, often analysed with simplistic notions of causality, recent research results have yielded new insights about the nature of these linkages.
- C. In the interests of brevity, the argument is put forward as a series of major propositions and derivatives strategies relating to the education employment nexus.
- D. Intensive research efforts are currently being supported through the developing world both by national governments and international donor agencies in the hope of improving, understanding of the nature and causes of rising unemployment.
- E. The massive problems of widespread and chronic unemployment and underemployment in less developed nations will remain among the most serious challenges to the development policy during the next several decades.

1. ACBDE                      2. BACDE                      3. CABDE                      4. DBEAC

**69. Given below are four sentences, each of which may or may not have an error. Following them are four options. Select the option indicating the error free statement (s).**

- A. Fruits from Madhavs' garden were stolen.
- B. Fruit's are sold here
- C. All the students of the students' council agreed to raise funds.
- D. The dress's texture was coarse.

1. A and B are correct    2. A and C are correct    3. Only C is correct    4. B and D are correct

**70. Choose the odd word out**

1. esoteric                      2. exigent                      3. occult                      4. Mystical

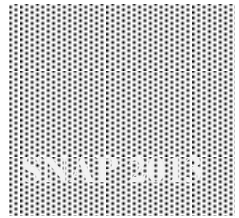
**71. Choose the word or phrase that best completes the sentence:**

The rebels sought to overcome the \_\_\_\_\_ strength of the police forces by engaging in \_\_\_\_\_ tactics

1. lack of \_\_\_\_\_ divisionary                      2. Augmented \_\_\_\_\_ peaceful
3. preponderant \_\_\_\_\_ guerilla                      4. Power \_\_\_\_\_ foolish

**DIRECTIONS for questions 72 to 74: Read the following passage and answer the questions that follow.**

My new mistress proved to be all she appeared when I first met her at the door- a woman of the kindest heart and feelings. She had never had a slave under her control previously and prior to her marriage she had been dependent upon her own industry for a living. She was by trade a weaver, and by constant application to her business, she had been in a good degree preserved from the lighting and dehumanizing effects of slavery. I

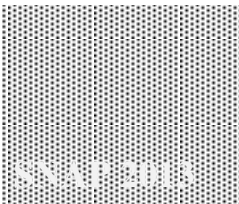


was utterly astonished at her goodness. I scarcely knew how to behave towards her. My early instruction was all out of place. The crouching servility, usually so acceptable a quality in a slave, did not answer when manifested toward her. Her favor was not gained by it; she seemed to be disturbed by it. She did not deem it to be impudent or unmannerly for a slave to look in the face. The meanest slave was put fully at ease in her presence, and none left without feeling better for having seen her. But alas! This kind heart had but a short time to remain such. The fatal poison of irresponsible power was already in her hands, and soon commenced its internal work.

Very soon I went to live with Mr. and Mrs. Auld; she very kindly commenced to teach me the A, B, C. After I had learnt this, she assisted me in learning to spell words of three and four letters. Just at this point of my progress, Mr. Auld found out what was going on, and at once forbade Mrs. Auld to instruct me further, telling her that it was unlawful, as well as unsafe, to teach a slave to read. Further he said, "If you give a slave an inch, he will take a mile. A slave should know nothing but to obey his master - to do as he is told to do. Learning would spoil the best slave in this world. "Now," said he, "If you teach that boy (speaking of myself) how to read, there would be no keeping him. It would forever unfit him to be a slave. He would at once become unmanageable, and of no value to his master. As to him, it could do him no good, but a great deal of harm. It would make him discontented and unhappy. "These words sank deep into my heart, stirred up sentiments within that lay slumbering, and called into existence an entirely new train of thought. I now understood what had been to me a most perplexing difficulty - the white man's power to enslave the black man. From that moment, I understood that pathway from slavery to freedom. Though conscious of the difficulty of learning without a teacher, I set out with high hope, and a fixed purpose, at whatever cost of trouble, to learn how to read. The very decided manner with which my master spoke, and strove to impress his wife with the evil consequences of giving me instruction, served to convince me that he was deeply sensible of the truths he was uttering. It gave me the best assurance that I might rely with the utmost confidence on the results which, he said, would flow from teaching me to read. What he most dreaded, that I most desired. What he most loved, that I most hated. That which to him was great evil, to be carefully shunned, was to me a great good, to be diligently sought; and the argument which he so warmly urged, against my learning to read, only served to inspire me with a desire and determination to learn. In learning to read, I owe almost as much to the bitter opposition of my master, as to the kindly aid of my mistress. I acknowledge the benefit of both.

**Excerpt from Fredrick Douglass.**

72. The author's main purpose in this passage is to
1. describe a disagreement between a woman and her husband
  2. analyze the reason for prohibiting the education of slaves
  3. describe a slave's discovery of literacy as a means of freedom
  4. dramatize a slave's change in attitude towards his mistress.
73. For which of the following reasons does Mr. Auld forbid his wife to educate the slave?
- A. Providing slaves with an education violates the law
  - B. He believes slaves lack the capacity for education
  - C. He fears education would leave the slave less submissive
1. Only A                      2. Only C                      3. A and B                      4. A and C
74. The tone of author in acknowledging his debt to his master can be best described as
1. sentimental and nostalgic
  2. cutting and ironic
  3. petulant and self-righteous
  4. resigned but wistful
75. Replace the underlined phrase with the one which is closest to it in meaning.



**I DROPPED A CLANGER** when I mentioned her ex- husband.

- |                                       |                        |
|---------------------------------------|------------------------|
| 1. Inadvertently caused embarrassment | 2. Let go of a clanger |
| 3. Toppled a lampshade                | 4. None of the above   |

**DIRECTIONS for questions 76 to 78:** Fill in the blanks in the sentences with the appropriate choices.

**76.** I should not have \_\_\_\_\_ to talk in such a \_\_\_\_\_ strain especially when I had not studied the man to whom I was talking.

- |                              |                              |
|------------------------------|------------------------------|
| 1. daring _____ commanding   | 2. tried _____ bold          |
| 3. ventured _____ peremptory | 4. emboldened _____ reckless |

**77.** The \_\_\_\_\_ of Agatha Christie's argument is that human nature remains the same, wherever you are.

- |         |             |          |         |
|---------|-------------|----------|---------|
| 1. acne | 2. pinnacle | 3. nadir | 4. crux |
|---------|-------------|----------|---------|

**78.** The \_\_\_\_\_ play caused me to squirm in my seat, but she began to \_\_\_\_\_ her eyes in a way that irritated me.

- |                          |                       |
|--------------------------|-----------------------|
| 1. delirious _____ spot  | 2. grin _____ wet     |
| 3. disastrous _____ damp | 4. maudlin _____ daub |

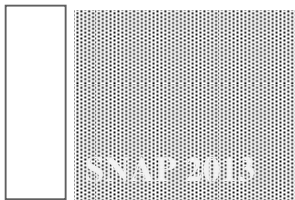
**DIRECTIONS for questions 79 and 80:** Select the choice that best replaces the underlined part of the sentence given in the question:

**79.** There they stood on the top shelf, all 20 volumes, **their red binding and gold lettering undoubtedly making them the most attractive between all the books on the bookshelf**

1. their red binding and gold lettering undoubtedly making them the most attractive between all the books on
  2. their red binding and gold lettering undoubtedly making them the most attractive among all the books on
  3. their red binding and gold lettering undoubtedly made them the most attractive among the books in
  4. their red binding and gold lettering undoubtedly making them seem the most attractive among all the books on
- Option 4.

**80.** Everything in the world **decays, it comes to an end and also dies inevitably.**

1. decays, it comes to an end and also dies inevitably.
2. decays, comes to an end and dies inevitably
3. decays and as it comes to an end it also dies inevitably
4. decay, they come to an end and then they die inevitably.



## SECTION – III

### ANALYTICAL & LOGICAL REASONING

Number of questions: 30

81. What will be the measurement of the angle made by the hands of a clock when the time is 8.35?
1. 45 degrees      2. 32.5 degrees      3. 47.5 degrees      4. 30 degrees
82. Find the odd man out.
1. DIRAMLOG      2. ERENIGEN      3. UIHCSSBI      4. AFOLDFID
83. Raghu is at point A. He walks 3 km to the north and then turns to his left. He walks 4 km in this direction. He turns left again and walks 6 km. If he wishes to reach point A again, in which direction should he be walking and what distance will he have to cover?
1. South east - 5 km      2. South east - 4 km      3. North east - 5 km      4. North east - 4 km

**DIRECTIONS for questions 84 and 85:** Read the following information carefully and answer the questions.

Six students A, B, C, D, E and F participated in a dancing competition wherein they won prizes 12000, 10000, 8000, 6000, 4000, 2000 according to the position secured. The following information is known to us:

1. A won less money than B
2. The differences between the winning of C and F was Rs. 2000
3. The differences between the winning of D and F was at least Rs. 4000
4. E won the Rs. 8000 prize.

84. Which of the following could be the ranking from first place to sixth places of students?
1. A, D, E, B, F, C      2. B, A, E, C, F, D      3. F, B, E, A, C, D      4. B, A, E, D, C, F
85. If A won Rs. 4000, how much in total did C and F win?
1. Rs. 6000      2. Rs. 10000      3. Rs. 22000      4. Rs. 18000
86. Where should the number 17 be placed to fit into the sequence?
- 18, 11, 15, 14, 19, 16, 20, 12
1. Between 14 and 19      2. Between 18 and 11      3. Between 19 and 16      4. Between 12 and 20
87. There are three facts and you are given three more statements. You have to determine which of these, if any is also a fact.
- Fact 1. All kids like to play.  
Fact 2. Some kids like ice cream.  
Fact 3. Some kids look like their mothers.
- Statement 1. All kids who like ice cream look like their mothers.  
Statement 2. Kids who like ice cream also like to play.  
Statement 3. Kids who like to play do not look like their mothers.
1. 1 only      2. 2 only      3. 2 and 3 only      4. None can be a fact
88. Insert the missing letter

A	F	K
H	M	R
	T	Y

1. O

2. P

3. Q

4. R

**DIRECTION for question 89:** Read the information given below and answer the question.

Six statements are followed by options consisting of three statements put together in a specific order. Choose the option which indicates a valid argument, that is, the third argument is a conclusion drawn from the earlier two statements.

- A. Amar is unhappy
- B. Amar is honest
- C. Some magicians are honest
- D. No honest man is a magician
- E. No magician is happy
- F. Amar is not a magician

1. FED

2. BFA

3. AEF

4. BDF

**DIRECTIONS for questions 90 and 91:** Read the information given below and answer the question.

The table below presents data on Gross National Product (GNP) and Net National Product (NNP) for India for six years. Answer questions based on these data.

Gross National Product and Net National Product

	<b>GNP</b> <b>(in Rs. Crores)</b>	<b>NNP</b> <b>(in Rs. Crores)</b>
1988-89	348210	309289
1989-90	402931	357285
1990-91	470252	418057
1991-92	541593	479001
1992-93	615831	543566
1993-94	695342	615273

**90.** The year during which both GNP and NNP have shown almost equal rate of growth:

1. 1989-90

2. 1990-91

3. 1991-92

4. 1992-93

**91.** Which of the following statements could be stated to be true:

- 1. GNP has been growing during the period under review.
- 2. NNP has been growing during the period under review.
- 3. The growth pattern has been different for both indicators during period under review.
- 4. None of these.

**92.** If PEACE is coded as RGCEG then how is MICKY coded in that code?

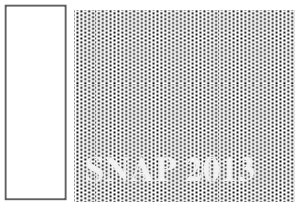
1. MOUSE

2. OKEMA

3. LHBXJ

4. JDLJ

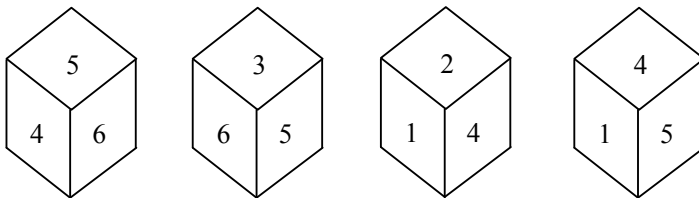
**93.** A set of symbols is given indicating the terms for which they will be used in the questions following them.



$\Theta$  = equal to,  $\varphi$  = not equal to,  $\Delta$  = greater than,  $x$  = less than,  $+$  = not greater than,  $\$$  = not less than A  
 $\Delta B \Delta C$  does not imply which of the following options?

1.  $A \$ B \Delta C$
2.  $C + B x A$
3.  $A x B \Theta C$
4.  $C + B \varphi A$

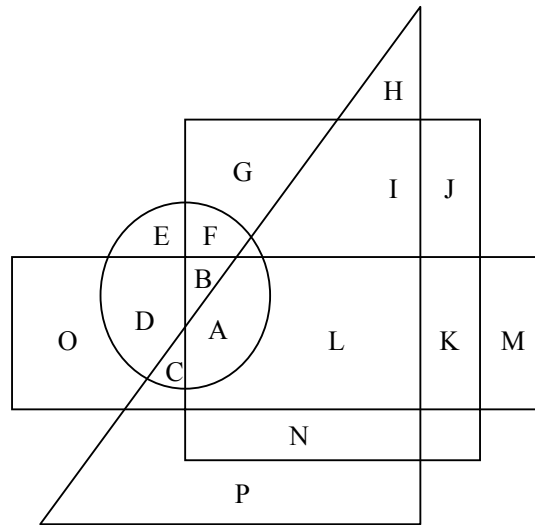
94. Given below are 4 pictures of a cube



Which number is on the face opposite to 3?

1. 1
2. 2
3. 4
4. 5

**DIRECTIONS for questions 95 and 96:** Read the information given below and answer the questions.



Rectangle indicates Faculty members, Square indicates Research scholars, Circle indicates Indians and Triangle indicates Americans.

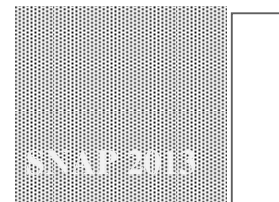
95. In the given figure show the area which indicates faculty members who are research scholars but are neither Americans nor Indians

1. L
2. N
3. K
4. G

96. In the given figure show the area which indicates Indian Americans who are faculty members but not research scholars.

1. A
2. B
3. C
4. F





97. While facing East you turn to your left and walk 10 yards. Then turn to your left and walk 10 yards, and now turn  $45^\circ$  to your right and go straight to cover 50 yards. Now in what direction are you with respect to the starting point?
1. North-East                      2. North                      3. South-East                      4. North-West
98. If  $P - Q$  means Q is son of P,  $P \times Q$  means P is brother of Q,  $P \div Q$  means Q is sister of P and  $P + Q$  means P is mother of Q, which of the following is definitely true about  $N \times K - M \div L$ ?
1. K is father of L and M  
2. L is daughter of K and niece of uncle N  
3. K is father of L and M - his son and daughter respectively  
4. M is uncle of K's brother N

**DIRECTIONS for questions 99 and 100:** Read the information given below and answer the question.

Five girls Rama, Sudha, Tara, Uma and Veena share an apartment and have distributed the task as one girl making breakfast per day, Monday through Friday, one of the five dishes upama, dosa, idli, uttapa and paratha.

Veena does not make uttapa and does not cook on Tuesday.

Sudha makes parathas but not on Monday or Friday.

Upama is made on Thursday.

Tara makes her dish which is not uttapa on Wednesday.

Idli is made on Friday but not by Uma.

Rama cooks on Monday

99. What does Tara cook on Wednesday?
1. Upama                      2. Paratha                      3. Idli                      4. Dosa
100. What day does Uma prepare her dish?
1. Monday                      2. Tuesday                      3. Thursday                      4. Friday

**DIRECTION for question 101:** Answer the following question on the basis of the following data.

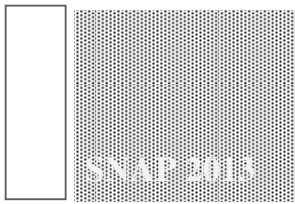
Kunal, Rahul, Mohit and Charan are constables on duty in Delhi, and they are trying to recollect who amongst them has been working the most number of days without leave. Here are the facts: Kunal has put in more days of consecutive duty than has Rahul, who has got in five days of consecutive duty. Mohit has gone fifteen days straight without leave, more than Kunal and Rahul combined. Charan has put in eight consecutive days of duty, which is less than what Kunal has done.

101. How many days has Kunal gone without leave?
1. 6                      2. 9                      3. 12                      4. 4

**DIRECTIONS for questions 102 to 104:** Read the information given below and answer the questions.

Five hundred school children were asked about cricketers they liked. 80 said they like Sachin Tendulkar, 60 said they liked Sourav Ganguly, 90 said they liked Mahendra Singh Dhoni. 10 said they liked all three. 40 said they liked Sachin and Sourav, 50 liked Sachin and Dhoni, while 30 said they liked Sourav and Dhoni.

102. How many, out of the 500, didn't choose Sachin, Sourav or Dhoni?
1. 280                      2. 380                      3. 180                      4. 480
103. How many like Sourav but not Tendulkar?



1. 21                      2. 22                      3. 23                      4. None of the above

**104.** How many like fewer than two cricketers?

1. 410                      2. 400                      3. 390                      4. 395

**105.** If 7 is coded as CBRT343, then 9 is

1. CBRT27                      2. SQRT81                      3. CBRT729                      4. CBRT6561

**106.** If HELLO is coded as 15|12|12|5|8, then WHERE is

1. 16|13|13|6|9                      2. 5|18|5|8|23                      3. 5|5|18|23|8                      4. 5|5|18|8|23

**107.** Complete the following series 3 10 59

1. 402                      2. 403                      3. 404                      4. 405

**108.** If WOOD is coded as 23|225|4 then MEET is

1. 13|5|5|20                      2. 13|10|20                      3. 13|25|20                      4. None of the above

**DIRECTIONS for questions 109 and 110:** The following table gives data on Sectoral Investment during the Eight plan. Read the data and answer the questions.

Sr. No.	Sector	Public Sector (Figures in Rs. Crores)	Private Sector (Figures in Rs. Crores)	6 <sup>th</sup> Plan (Figures in %)	7 <sup>th</sup> Plan (Figures in %)
1.	Agriculture	52000	96800	15.2	11.2
2.	Mining and Quarrying	28500	11100	6.1	6.7
3.	Manufacturing	47100	141300	23.6	26.0
4.	Electricity, Gas and Water	92000	10120	12.1	13.7
5.	Construction	3300	17240	2.7	1.9
6.	Transport	49200	38710	9.4	9.9
7.	Communication	25000	1000	1.5	2.0
8.	Services	63900	120730	29.4	28.6

**109.** Which of the following sectors has shown a steady increase in investments during last three plan periods?

1. Agriculture                      2. Communication                      3. Services                      4. Construction

**110.** During the eight plan period, in which sector the percentage share of Public Sector investment has been the highest?

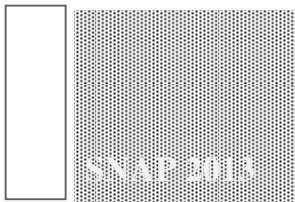
1. Mining and Quarrying                      2. Electricity, Gas and Water  
3. Communication                      4. None of these

**SECTION – IV**

**GENERAL AWARENESS**

**Number of questions: 40**

- 111.** The economically diverse region of MENA nations refers to the countries in
1. Middle East and North African Countries
  2. Middle East and North American Countries
  3. Mediterranean Europe and North Atlantic Countries
  4. None of the above
- 112.** Open market operations refers to the sale and purchase by the RBI of
1. Foreign currency
  2. Gold
  3. Government bonds
  4. All the above
- 113.** The agency that estimates national income in India is
1. RBI
  2. Planning commission
  3. Central Statistics Organisation
  4. None of the above
- 114.** Panchatantra was written by
1. Bhramabhatt
  2. Vishnu Sharma
  3. Jaya Deva
  4. None of the Above
- 115.** IRDA is the Indian regulator for the
1. Banking sector
  2. Mutual funds
  3. Rural Development
  4. None of the above
- 116.** The Speaker of the Lok Sabha is elected by:
1. Members of Lok Sabha
  2. President of India
  3. Leader of the majority party in the Lok Sabha
  4. None of the Above
- 117.** The Finance Minister's Budget speech presented to the Indian parliament every year usually has two parts. What does the Part A relate to:
1. Taxation Proposals
  2. General Economic Survey
  3. Both (a) and (b)
  4. None of the above
- 118.** Which two institutions are popularly referred to as the 'Bretton Woods Twins'?
1. International Monetary Fund and World Bank
  2. World Bank and Asian Development Bank
  3. Asian Development Bank and International Monetary Fund
  4. United Nations and World Trade Organisation
- 119.** Based on the statements given below, Special Drawing Rights is best described to include which of the following statements
- i. It is a basket of currencies reviewed every 5 years
  - ii. It was created to reduce the dependencies on gold and US dollar
  - iii. It is a supplementary foreign exchange reserve assets maintained by IMF
1. i and ii
  2. ii and iii
  3. i, ii and iii
  4. Only iii



- 120.** Which NATO country's parliament was the first to vote in favour of the move to make military service compulsory for women

  1. Italy
  2. Germany
  3. Norway
  4. None of the above

**121.** The market for government securities is also referred to as

  1. Bullion market
  2. Gilt-edge market
  3. Secondary market
  4. Money market

**122.** From April 2010 the savings bank interest is calculated

  1. at 4% per annum
  2. on daily balance method based on the closing balance maintained every day
  3. lowest balance available between 10th and the final day of the month
  4. None of the above

**123.** Financial Action Task Force (FATF) is an Inter-governmental Body established in 1989. It is concerned with

  1. Money laundering
  2. Stock markets
  3. Foreign Direct Investment
  4. Foreign Institutional Investors

**124.** Which of the following sectors in India was not nationalised by the government at any point of time

  1. Banking
  2. Insurance
  3. Coal
  4. None of the above

**125.** Which of the following is not a Palindrome

  1. A car, a man, a maraca
  2. A man, a plan, a canal, Panama
  3. As you sow, so you reap
  4. None of the above

**126.** The movie 'Life of Pi' is based on an award winning novel written by

  1. Peter Carey
  2. Alan Hollinghurst
  3. Yann Martel
  4. None of the above

**127.** LIDL, Walgreen, ASDA and Kroger are

  1. Automobile companies
  2. Retailers
  3. Electronic product manufacturers
  4. None of the above

**128.** Which bank was the first to introduce the Automated Teller Machine (ATM) in India

  1. Hongkong and Shanghai Banking Corporation (HSBC)
  2. Citibank
  3. Standard Chartered Bank
  4. HDFC Bank

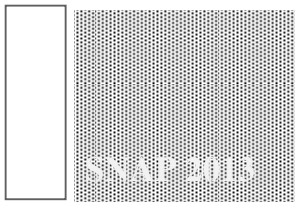
**129.** The Three Gorges Dam, is the world's largest hydropower project and is located in

  1. China
  2. Brazil
  3. Russia
  4. None of the above

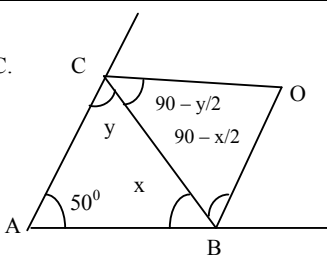
**130.** India signed the Kyoto Protocol in the year:

  1. 2000
  2. 1998
  3. 2002
  4. 1995

- 131.** Given below are the creators of some well-known cartoon characters. Identify the creator - cartoon pair that does not match
- |                                 |                                       |
|---------------------------------|---------------------------------------|
| 1. Elzie Crisler Segar – Popeye | 2. Dan Yaccarino - Oswald the Octopus |
| 3. William Hanna - Richie Rich  | 4. Walt Disney - Donald Duck          |
- 132.** The goals of monetary policy do not include
- |                           |                     |
|---------------------------|---------------------|
| 1. full employment        | 2. price stability  |
| 3. maximising tax revenue | 4. Any of the above |
- 133.** The Corporate Head Quarters of Tata Group is
- |                 |                |               |                      |
|-----------------|----------------|---------------|----------------------|
| 1. Bombay House | 2. Tata Towers | 3. JRD Centre | 4. None of the Above |
|-----------------|----------------|---------------|----------------------|
- 134.** Dronacharya Award for Coaching for the year 2013 was received by Narinder Singh Saini for which discipline
- |            |           |           |                      |
|------------|-----------|-----------|----------------------|
| 1. Archery | 2. Boxing | 3. Hockey | 4. None of the above |
|------------|-----------|-----------|----------------------|
- 135.** This company signed an agreement with the Government of India for the Passport Seva Project in 2008
- |                              |                    |
|------------------------------|--------------------|
| 1. Infosys Technologies      | 2. Mahindra Satyam |
| 3. Tata Consultancy Services | 4. Wipro           |
- 136.** Recommendations of which committee led to the reforms in the banking sector in India in the nineties
- |                       |                         |
|-----------------------|-------------------------|
| 1. Malhotra Committee | 2. Narasimham Committee |
| 3. Mayaram Committee  | 4. Damodaran Committee  |
- 137.** Which country is the largest producer of newsprint?
- |              |            |           |                      |
|--------------|------------|-----------|----------------------|
| 1. Indonesia | 2. Finland | 3. Canada | 4. None of the above |
|--------------|------------|-----------|----------------------|
- 138.** India's Direct Cash Transfer Scheme draws similarities from models of which country
- |           |            |              |              |
|-----------|------------|--------------|--------------|
| 1. Brazil | 2. Germany | 3. Australia | 4. Sri Lanka |
|-----------|------------|--------------|--------------|
- 139.** Who put forth the theory of 'Zero Defects':
- |                     |                  |                 |                |
|---------------------|------------------|-----------------|----------------|
| 1. W. Edward Deming | 2. Philip Crosby | 3. Joseph Juran | 4. Martin Hall |
|---------------------|------------------|-----------------|----------------|
- 140.** Logic of induction is very close to
- |  |                          |
|--|--------------------------|
| 1. the logic of observation              | 2. the logic of sampling |
| 3. the logic of the controlled variables | 4. None of the above     |
- 141.** How many pairs of chromosomes exist in a human cell?
- |       |       |       |       |
|-------|-------|-------|-------|
| 1. 12 | 2. 23 | 3. 34 | 4. 45 |
|-------|-------|-------|-------|



- 142.** International Date Line roughly follows the longitude of
1. 180 degrees
  2. 90 degrees
  3. 360 degrees
  4. None of the above
- 143.** Daylight saving time (DST) implies adjusting the clock by one hour:
1. forward near the start of spring and backward in autumn
  2. forward near the start of autumn and backward in spring
  3. forward near the start of spring and forward in autumn
  4. backward near the start of autumn and backward in spring
- 144.** Who among the following sports persons are twins
1. Serena Williams and Venus Williams
  2. Mark Waugh and Steve Waugh
  3. Man Pathan and Yusuf Pathan
  4. None of the above
- 145.** Individuals with this blood type are universal red cell donors
1. A-
  2. B +
  3. AB
  4. O-
- 146.** 'Relationship beyond banking' is the tag line of
1. State Bank of India
  2. Central Bank of India
  3. Bank of India
  4. Bank of Maharashtra
- 147.** Find the odd man out:
1. Sarod
  2. Sitar
  3. Shehenai
  4. Santoor
- 148.** Which instrument measures Blood Pressure?
1. Sphygmomanometer
  2. Hygrometer
  3. Saccharimeter
  4. Spherometer
- 149.** Find the odd person out:
1. Shikha Sharma
  2. Chanda Kochhar
  3. Shubhalakshmi Panse
  4. Kiran Mazumdar Shaw
- 150.** Extradition is a process whereby
1. one country transfers a suspected or convicted criminal to another country
  2. olden traditions are rejuvenated as a part of cultural events
  3. additional diction efforts are taken for language improvisation
  4. extraction of the tar is carried out from the mines

Que. No.	Ans.	Explanations
1.	3	Dinesh can do the work in 15 days and Harish can do it in 12 days. Let Subodh can do the work in 'x' days. Since the work completes in 4 days, we have $\frac{1}{12} + \frac{1}{15} + \frac{1}{x} = \frac{1}{4} \Rightarrow \frac{1}{x} = \frac{1}{4} - \frac{1}{12} - \frac{1}{15} \Rightarrow \frac{1}{x} = \frac{1}{10} \Rightarrow x = 10 \text{ days.}$ Hence Subodh can do the work in 10 days.
2.	1	Here Males in the village = 1100. Since 3% males are not literate, so the number of males who are literate = 97% of 1100 = 1067. Now overall literacy rate of the village = 95% of 2000 = 1900. So, number of literate females = 1900 - 1067 = 833. Hence required %age = $\frac{833}{900} \times 100 = 92.55\%$ .
3.	3	Since Ravi's 18 day's salary = Ajit's 12 day's salary $\Rightarrow$ Ravi's 1 day salary = Ajit's $\frac{2}{3}$ day salary. Let Ajit's 1 day salary = Rs 99, so Ravi's 1 day salary = Rs 66. The total amount = $99 \times 12 = \text{Rs } 1188$ . The total one day salary of Ajit & Ravi = $99 + 66 = \text{Rs } 165$ . Hence the required number of days = $\frac{1188}{165} = 7.2 \text{ days}$ .
4.	1	We have $\frac{1}{4}$ of 30% of 120 = $\frac{1}{4} \times \frac{30}{100} \times 120 = 9$ . Also 25% of 40 = 10 and 50% of 10 = 5. So the required number = $10 + 5 = 15$ . Hence the number to be added in 9 to make it 15 is 6.
5.	2	Total age of 25 teachers 10 years ago = $45 \times 25 = 1125$ years. As one teacher was retired 4 years ago, total age of all teachers 4 years ago = $1125 + 150 - 58 = 1217$ years. After one year, one more teacher was added with age 54 years, so the total age of all teachers 3 years ago = $1217 + 24 + 54 = 1295$ years. Now the present age of all teachers = $1295 + 75 = 1370$ years. Hence average age of all teachers = $\frac{1370}{25} = 54\frac{4}{5} \text{ years}$ .
6.	4	Let the total work is 60 units. X can complete the work 15 days, so he can do 4 units in one day. Similarly Y can do 3 units in one day. Now in the first 5 days, X will do $5 \times 4 = 20$ units and in next three days x and Y will work $7 \times 3 = 21$ units. The total work done till now is $20 + 21 = 41$ units. The remaining work is 19 units, which will be done by Y alone and he will take $\frac{19}{3} = 6.3 \text{ days}$ .
7.	1	Let $x = 2.093$ and $y = 0.089$ . So we have $\frac{[(x+y)^2 - (x-y)^2]}{xy} = \frac{4xy}{xy} = 4$ .
8.	4	We have $x + y + 50 = 180^\circ \Rightarrow x + y = 130^\circ$ . BO and CO are the external bisectors of angle B and angle C. In $\triangle BOC$ , $90 - \frac{x}{2} + 90 - \frac{y}{2} + \angle BOC = 180^\circ$ . $\Rightarrow \frac{x+y}{2} = \angle BOC \Rightarrow \angle BOC = \frac{130}{2} = 65^\circ$ . 
9.	4	From the given information we can say that the number of executives is 40 and the number of non executives is 20. But we cannot find the average salary of non executives as we do not know the average salary of executives. So answer is 4 <sup>th</sup> option.
10.	1	The syrup in pot A is $\frac{3}{10}$ and in pot B is $\frac{5}{7}$ . In the required mixture the syrup should be $\frac{2}{5}$ . Using Alligation we have

		<p><math>\Rightarrow</math> The required ratio is 22: 7.</p>
11.	4	<p>The total distance covered by the truck in three days = <math>12 \times 40 + 10 \times 50 + 360</math>  <math>= 480 + 500 + 360 = 1340</math>.  The total time it travelled in three days = <math>12 + 10 + 8 = 30</math> hours.  So the average speed = <math>\frac{\text{Total Distance covered}}{\text{Total time taken}} = \frac{1340}{30} = 44.66 \text{ km/hr}</math>.</p>
12.	1	<p>Let the second number is x.  We know that L.C.F. <math>\times</math> H.C.F = Product of numbers.  <math>\Rightarrow 8 \times 96 = 32 \times x \Rightarrow x = 24</math>.</p>
13.	3	<p>Let the ages of A and B are <math>3x</math> and <math>4x</math>. Acc. to the question we have,  <math>4x = 3x - 5 + 10 \Rightarrow x = 5</math>. So the age of B = <math>4 \times 5 = 20</math> years.</p>
14.	4	<p>The speed of the vehicle = 54 km/hr or 15 m/sec. The circumference of front wheel is 3.5 meters and that of the back wheel is 3 meters. In order to make a whole number of turns, the vehicle should move = LCM  <math>(3.5, 3) = 21\text{m}</math>. Time taken by the vehicle to move 21 meters is <math>\frac{21}{15} = 1.4</math> seconds.</p>
15.	4	<p>Let q is 100, then p is 81. The required %age = <math>\frac{100}{81} \times 100 = 123.45\%</math></p>
16.	3	<p>The cost of fencing is Rs 2700 at the rate of Rs 30/m. So the perimeter of the plot is <math>\frac{2700}{30} = 90 \text{ m}</math>. Let breadth of plot is x, then length = <math>x + 15</math>.  Perimeter of plot = 90 <math>\Rightarrow 2(x + 15 + x) = 90 \Rightarrow 2x + 15 = 45 \Rightarrow x = 15</math>. So the length = <math>15 + 15 = 30 \text{ m}</math>.</p>
17.	1	<p>Let the total number of students is 100. As 20 % opted for neither History nor Geography, so the total students who opted at least one of the subjects is 80.  We have <math>n(H) = 70</math>, <math>n(G) = 45</math>, <math>n(H \cup G) = 80</math>  Now <math>n(H \cup G) = n(H) + n(G) - n(H \cap G)</math>  <math>\Rightarrow 80 = 70 + 45 - n(H \cap G)</math>  <math>\Rightarrow n(H \cap G) = 35</math>. Hence 35% of the class opted for both the subjects.</p>
18.	1	<p>Here <math>\tan \theta = \frac{10}{20} = \frac{1}{2}</math>  In <math>\triangle AOB</math>  <math>\frac{x}{1000} = \tan \theta \Rightarrow x = 1000 \times \frac{1}{2}</math>  <math>\Rightarrow x = 500 \text{ ft}</math>.</p>



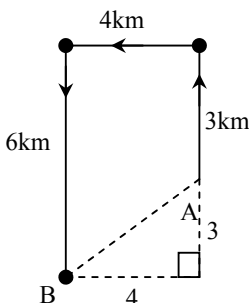
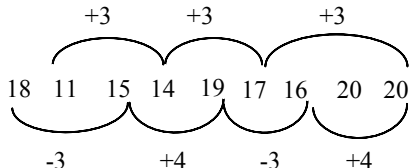
19.	3	<p>We have</p> <div style="text-align: center;"> <p>Caps (19)      Shoes (11)</p> </div> <p>Now <math>19 - x + x + 11 - x = 21</math>  <math>\Rightarrow x = 9</math>  Or  We have <math>n(C) = 19, n(S) = 11, n(S \cup C) = 21</math>  Now <math>n(S \cup C) = n(S) + n(C) - n(S \cap C)</math>  <math>\Rightarrow 21 = 19 + 11 - n(S \cap C)</math>  <math>\Rightarrow n(S \cap C) = 9</math></p>
20.	2	<p>Since the no. is increased &amp; decreased by same %age, So the net change is <math>-\frac{(20)^2}{100} = -4\%</math> or 4% decrease.</p>
21.	4	<p>Total no. of boys = 22 &amp; total girls = 20  The no. of ways in which a girl and a boy will be appointed a monitor <math>= {}^{22}C_1 \times {}^{20}C_1</math>  <math>= 22 \times 20 = 440</math></p>
22.	3	<p>Let the speed of Arvind is x km/hr and speed of Mohan is y km/hr. When they travel in opposite direction</p> <p>We have <math>(x+y) \times \frac{1}{2} = 20 \Rightarrow x + y = 40 \dots\dots\dots(1)</math></p> <p>&amp; when they travel in same direction, we have  <math>(x-y) \times 2 = 20</math>  <math>\Rightarrow x-y=10 \dots\dots\dots(2)</math>  Adding 1 &amp; 2 we get <math>2x = 50</math>  <math>\Rightarrow x = 25</math> km/hr  <math>\therefore</math> Speed of Arvind is 25 km/hr</p>
23.	3	<p>Here <math>A = \{1, 2, 3, 4, 5, 6\}</math>. Since A has three even &amp; there odd numbers, the subsets of A with one element even &amp; one add can be formed in <math>{}^3C_1 \times {}^3C_1 = 9</math> ways.</p>
24.	4	<p>The net SP of Soap after discount <math>= 0.85 \times 30 = \text{Rs } 25.5</math>.  Since he is giving a sachet of Shampoo fee, net price he his taking from customer <math>= 25.5 - 1.5 = \text{Rs } 24</math>.  Now the profit made = 20%  We have <math>1.2 \text{ CP} = \text{SP}</math>  <math>\Rightarrow 1.2 \times \text{CP} = 24</math>  <math>\Rightarrow \text{CP} = \frac{24}{1.2}</math>  <math>\Rightarrow \text{CP} = \text{Rs } 20</math>.</p>
25.	3	<p>This is the basic property of logarithms that  <math>\text{Log}(m \times n) = \log m + \log n</math>.</p>
26.	3	<p>Let the numbers are x &amp; y  We have <math>x + y = 15 \dots\dots\dots(1)</math>  &amp; <math>xy = 30 \dots\dots\dots(2)</math>  Now <math>\frac{1}{x} + \frac{1}{y} = \frac{x+y}{xy} = \frac{15}{30} = \frac{1}{2}</math></p>
27.	3	<p>The total amount paid by Amar, Akbar &amp; Anthony <math>= 26.85 + 42.75 + 53 = \text{Rs } 122.6</math>  Since they had decided to pay the bill in 3:4:5, their actual payments should have been</p> <p>Amar <math>= \frac{3}{12} \times 122.6 = \text{Rs } 30.65</math>.  Akbar <math>= \frac{4}{12} \times 122.6 = \text{Rs } 40.86</math>.  Anthony <math>= \frac{5}{12} \times 122.6 = \text{Rs } 51.08</math>.</p> <p>Since Amar paid Rs., 3.8 less than what he should pay, so he will give <math>42.75 - 40.81 = \text{Rs } 1.95</math>. to Akbar &amp; <math>53 - 51 = \text{Rs } 2</math>. to Anthony. Hence 3rd option is answer.</p>

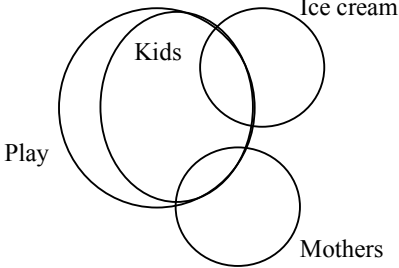
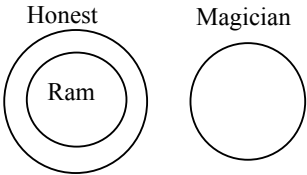
28.	3	<p style="text-align: center;"> </p> <p>Let distance between Ayodhya and Chitrakoot = <math>x</math> km  Let distance covered by Bajrang when Angad covered 100 km = <math>y</math> km  In <math>\Delta STR</math> Right Angled at T &amp; Angle TSR = <math>30^\circ</math></p> $\frac{TR}{SR} = \frac{\sin 30^\circ}{\sin 90^\circ} = \frac{x - y}{x - 100} = \frac{1}{2}$ $2x - 2y = x - 100$ $x = 2y - 100 \quad \text{---(1)}$ $y = \frac{x + 100}{2}$ <p>As we know that speed &amp; Distance.  Hence distance covered by Angad &amp; Bajrang is &amp; Speed and their speed is constant hence.</p> $\frac{\text{Distance by Bajrang}}{\text{Distance by Angad}} = \frac{y}{100} = \frac{x}{x - 150}$ $xy - 150y = 100x$ $y(x - 150) = 100x$ $\text{substituting } y = \frac{x + 100}{2}$ $\frac{x + 100}{2} (x - 150) = 100x$ $x^2 - 250x - 15000 = 0$ $(x - 300)(x + 50) = 0$ <p>Hence Distance of Chitrakoot &amp; Ayodhya = <math>x = 300</math> km.</p>
29.	4	<p>We have</p> $\left(1 - \frac{1}{2}\right)\left(1 - \frac{1}{3}\right)\left(1 - \frac{1}{4}\right)\left(1 - \frac{1}{5}\right) \dots \left(1 - \frac{1}{39}\right)\left(1 - \frac{1}{40}\right) = \frac{X}{40}$ $\Rightarrow \frac{1}{2} \times \frac{2}{3} \times \frac{3}{4} \times \frac{4}{5} \dots \times \frac{38}{39} \times \frac{39}{40} = \frac{X}{40}$ $\Rightarrow \frac{4}{40} = \frac{X}{40} \Rightarrow X = 1$
30.	3	<p>The LCM of 12, 16, 18 is 144.  <math>\therefore</math> the Smallest number which when divided by 12, 16, 18 gives remainder 7 in each case is <math>144 + 7 = 151</math></p>
31.	4	<p>We have <math>\left(\frac{a}{b}\right)^{2x-3} = \left(\frac{b}{a}\right)^{x-9}</math></p> $\Rightarrow \left(\frac{a}{b}\right)^{2x-3} = \left(\frac{a}{b}\right)^{9-x}$ $\Rightarrow 2x - 3 = 9 - x$ $\Rightarrow 3x = 12$ $\Rightarrow x = 4$
32.	3	<p>The ratio of decrease of population for the first, second and third year is 10:9 and the current population is</p>

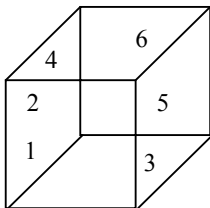
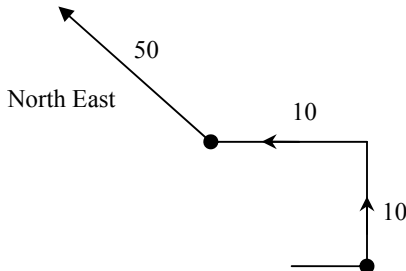
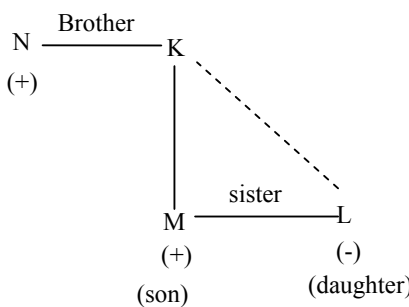
		29160. So the population three year back is $29160 \times \frac{10}{9} \times \frac{10}{9} \times \frac{10}{9} = 40000$ .
33.	1	<p>Let CP of Anna = Rs 100          So the CP of Boney = Rs 120          CP of Chakori = Rs. 132          Since Chakori sold it to mechanic at a loss of 9.09%  <math>\therefore</math> The CP of Mechanic = Rs 120          Now mechanic spent 10% of purchase price on repairs  <math>\Rightarrow</math> Net CP of mechanic = <math>120 + 10 = \text{Rs } 132</math>          Mechanic sold the car to Anna again at a profit of 8.33%  <math>\Rightarrow</math> CP of Anna = <math>132 \times \frac{13}{12} = \text{Rs. } 143</math>          So, Anna lost <math>143 - 120 = \text{Rs } 23</math>, which is 23% of his CP.</p>
34.	1	<p>Let the side of square is 1 unit, then its area is 1sq. unit and perimeter is 4 units. Since perimeters of square and circle are same  <math>\Rightarrow 2\pi r = 4</math>  <math>\Rightarrow r = \frac{2}{\pi}</math>  <math>\therefore</math> Area of circle <math>\pi r^2 = \pi \times \frac{4}{\pi^2} = \frac{4}{\pi} = \frac{4}{3.14} &gt; 1</math>  <math>\therefore</math> Area of circle is more than the area of square.</p>
35.	1	<p>Let the capacity of the tank in 30 liter  <math>\therefore</math> Tap A can fill it at 2 liter/hr rate and Tap B can fill it at 3 liter/hr rate, where as Tap C can empty it at 1 liter/hr rate.          Now amount of water filled in tank in 2 hrs = <math>2 \times 2 + 3 \times 2 - 1 \times 2 = 8</math> liter.          Remaining volume of tank to be filled = <math>30 - 8 = 22</math> liter.          Now this 22 liter will be filled by A &amp; B working together in <math>\frac{22}{5} = 4.4</math> hrs</p>
36.	2	<p>Total man hours of typists, composers and binders in a day are 160 hrs, 100 hrs, &amp; 150 hrs. So the total books which can be typed in a day are <math>160 \times 8 = 1280</math>.          Total books that can be composed in day are <math>12 \times 100 = 1200</math> and total books that can be bind in a day are <math>12 \times 150 = 1800</math>. Since, the composers can compose a maximum of 1200 books, so this is the number of books which can be published in day.</p>
37.	2	<p>Let initially x people were employed to do the work in y days and after z days there number was doubled.          If they continue to do the work on their initial pace, the work would have done in <math>\frac{7}{4}y</math> days. So we have  <math>\frac{7}{4}xy = xz + 2x(y - z) \Rightarrow z = \frac{1}{4}y</math>.          Now let initially 10 people were employed to do the work in 4 days. Since <math>z = \frac{1}{4}y</math>, so the number was doubled after one day. In the first day, 10 people did 10 man days work and then their number was doubled, so the 20 men did 60 man days work in the remaining 3 days. Hence the total work was 70 man days out of which 10 man days work was done before employing new people. Hence the required % age of work done before increasing the number of workers = <math>\frac{10}{70} \times 100 = \frac{100}{7}\%</math>.</p>
38.	2	<p>Since AO: PB = 30: 32 &amp; <math>\angle AOB</math> is a right angle.          Let us take the triplet 30, 40, 50. i.e. OB = 40 km, AB = 50 km,          Now PB = 32 km <math>\Rightarrow</math> AP = 18 km,          Now the Cat and Jackal reach at A at same time.          So the ratio of their speed is equal to the ratio of the distances covered.  <math>\therefore</math> Ratio of speed of Jackal &amp; Cat is 30:18 i.e. 5: 3.</p>

39.	3	<p>When the Train reaches at A, t50 Jackal reaches at A from O i.e. it covers a distance of 30km.          If it runs towards B, then let the Jackal is at C when the train reaches at point A s.t OC=30 km.          Now Jackal will cover CB = 10 km and the train will cover 50 km and time taken by both is same. Hence the ratio of speeds is equal to the ratio of distance covered  <math>\therefore</math> Ratio of speeds of Jackal &amp; Train is 10: 50 i.e. 1: 5.</p>
40.	3	<p>In this case the Jackal is running towards A through P.          Now Jackal will cover 30 km by the time train reaches at A.          In <math>\triangle OAP</math> we have <math>OA = 30</math> km, <math>AP = 18</math> km <math>\Rightarrow OP = 24</math> km          Let <math>PN = 6</math> km  <math>\Rightarrow</math> The Jackal is at point N, when the train reaches at A.          The ratio of speeds of train and Jackal is 5:1.          Now the distance <math>AN = 12</math> km will be covered by train &amp; Jackal in the ratio 5:1  <math>\therefore AM = \frac{5}{6} \times 12 = 10</math> km.</p>
41.	2	Entrenched means to firmly establish or FORTIFIED
42.	3	Rectitude means morally correct behaviour or thinking or INTEGRITY
43.	1	likely to arouse or incur resentment or anger in others or UNACCEPTABLE
44.	4	a person who is very knowledgeable and enthusiastic about an activity, subject, or pastime or ARDENT FAN
45.	3	Humans cannot control nature NOW and WILL NOT BE ABLE TO in the future too. Hence the best option is 3.
46.	4	The correct sentence reads - Halton Brorough Council put up a notice to tell the public about its plans to move a path from one place to another.
47.	4	inability to write coherently, as a symptom of brain disease or damage.
48.	1	panegyric means a public speech or published text in praise of someone or something.
49.	3	diabolic means relating to or characteristic of the Devil. Hence one would hate them or loathe them. One can be wary or cagey about something devilish. But these words do not fit with the construction of the sentence. ...am wary of ....., am .....cagey about..... Spelling of Loath changed to Loathe
50.	2	To figure out what the missing words are, try to predict their definitions by using keywords from the

		prompt. In this prompt, each missing word has its own keywords. The first missing word's keywords are at the end of the sentence, where the prompt gives the definition of the missing word as a work that involves "abundant extended metaphors." The second missing word is contrary to "abundant extended metaphors" and describes the "plot" of the work. Thus, the first missing word describes a type of work that uses metaphors, and the second missing word implies the opposite of this figurative language. Therefore, the best choice is option 2. Allegorical means involving a figurative or metaphorical treatment of a literal subject, while literal means not figurative or not metaphorical. Parabolic means pertaining to a parable, a short work that conveys meaning in an indirect manner. Hence that option is also correct. Replaced <i>parabolic</i> by <i>euphemistic</i> .
51.	1	Attenuate and make thin are similar
52.	4	Rapier - a thin, light sharp-pointed sword used for thrusting. We see it being used by sports people in the sport – fencing
53.	2	Raise Cain means to make a lot of trouble; to raise hell.
54.	3	To go to seed or to run to seed means to decline in looks, status, or utility due to lack of care. This old coat is going to seed. Have to get a new one. The front of the house is going to seed. Let's get it painted.
55.	2	
56.	1	
57.	1	
58.	3	
59.	4	morose - glowering, moody, sullen, saturnine, glum, dour, dark, sour
60.	2	<i>Them</i> is an object pronoun
61.	2	<i>Yet</i> is an adverb of time.
62.	1	A perambulator or commonly known as pram is one in which you keep a baby and move him around. A bassinet is an oblong basketlike bed for an infant.
63.	4	all others are Christmas or related to it. <b>Halloween</b> - the night of 31 October, the eve of All Saints' Day, often celebrated by children dressing up in frightening masks and costumes. Halloween is thought to be associated with the Celtic festival Samhain, when ghosts and spirits were believed to be abroad. <b>Yule</b> or Yuletide ("Yule time") is a pagan religious festival observed by the historical Germanic peoples, later being absorbed into and equated with the Christian festival of Christmas. <b>Crimbo</b> is a slang word for Christmas. <b>Noel</b> Christmas, especially as a refrain in carols and on Christmas cards
64.	3	To have a finger on the pulse of something - knowledge of what is happening now in a particular area. They've got their finger on the pulse of popular culture in Latvia.
65.	2	The quotation mark which ends a sentence has to be within the inverted commas.
66.	2	<i>Unless</i> and <i>does not</i> together change the meaning of the sentence. What we want to say is that if he does not give up smoking then there will be no improvement in his health.
67.	1	A report would suggest something happens or something doesn't happen. Hence option 1 is the best construction.
68.	4	The passage is about the relationship between education and employment. In order to understand the nature and causes of rising unemployment, research is being conducted, and this research have provided some insights. Hence D and then B. We know that A and C will be together. As there are no derivatives strategies being talked about, C cannot be linked to any other statement in the paragraph. Thus it works best as the last sentence of the paragraph.
69.	3	The corrections are outlined below: A – Madhav's garden. B – Fruits are.. D – dress' texture..
70.	2	Esoteric means mystical, mysterious or occult. Exigent means urgent.
71.	3	As the rebels sought to overcome the ..... strength, they would use tactics which are not open or are more of a surprise. Hence preponderant ( meaning superior in weight, force, influence, numbers, etc.) and guerilla fit in well with the meaning of the sentence. A guerilla is a member of an irregular usually politically motivated armed force that combats stronger regular forces, such as the army or police.
72.	3	The author wants to put forth that the words which he was taught by his mistress helped him to understand that education was what would lead him to freedom.
73.	4	Refer second para: 'Mr. Auld found out what was going on , and at once forbade Mrs. Auld to instruct me further, telling her that it was unlawful, as well as unsafe, to teach a slave to read.' The author states that Mr. Auld wants his wife to stop teaching him because Mr. Auld feels that if a slave learns to read then he is of no use to his master. Also that the slave will not be manageable any longer and also that the slave himself will not be happy. Both A and C are correct.
74.		Option 1. The author remembers the good time – when his mistress teaches him to read - and also acknowledges the fact that though what his master did was incorrect it ultimately led to something positive – he was stimulated to read and learn. (Sentimental means expressive of or appealing to sentiment, especially the tender emotions and feelings, as love, pity, or nostalgia. Nostalgic means a wistful desire to

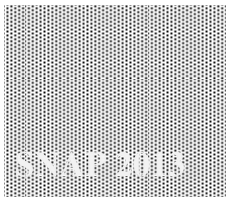
		<p>return in thought or in fact to a former time in one's life, to one's home or homeland, or to one's family and friends; a sentimental yearning for the happiness of a former place or time.)</p> <p>Option 4 : As it is a story which talks of triumph, we cannot say that the tone is <i>resigned</i> - means submissive or acquiescent. Wistful means expressing or revealing thoughtfulness, usually marked by some sadness.</p> <p>Option 3. He is not being moralistic, so self- righteous which means confident of one's own righteousness, especially when smugly moralistic and intolerant of the opinions and behavior of others, cannot be the answer.</p> <p>Petulant means moved to or showing sudden, impatient irritation, especially over some trifling annoyance</p> <p>Option 2. It is not ironic because he doesn't think something and it turns out to be something else. Moreover he is actually happy that the master stopped his learning because that later motivated him to work on his own. Cutting means wounding the feelings severely; sarcastic. Ironic means using words to convey a meaning that is the opposite of its literal meaning.</p>														
75.	1	a clanger is a bad and embarrassing mistake.														
76.	3	<i>Venture to</i> is the correct usage. The others can't fit in the first blank. Peremptory means Offensively self-assured; dictatorial.														
77.	4	The sentence states that her argument is in short this. – crux fits is best – crux means the gist.														
78.	4	The only word that fits the second blank is daub. Maudlin means self pitying which fits the first blank too.														
79.	4															
80.	2	Option 3 is incorrect because also and inevitably cannot be used together. After the comma, we cannot have a complete sentence. Hence option 1 and option 4 are incorrect.														
81.	3	<p>Angle made by clock at 8:35</p> <p>We know that Angle at 8'o clock is <math>240^0</math> the relative speed of minute hand &amp; hour hand = <math>\frac{11^0}{2}/\text{min}</math></p> <p>Hence in 35min <math>\rightarrow</math> the Angle covered by minute hand relative to hour hand = <math>\frac{11}{2} \times 35 = \frac{385}{2} = 192.5</math></p> <p>Angle b/w hour hand &amp; minute will be = <math>240^0 - 192.5^0 = 47.5^0</math></p> <p>Hence answer is option 3.</p>														
82.																
83.	3	<div></div> <p>As per the question the shortest distance between point A &amp; B = <math>\sqrt{3^2 + 4^2} = \sqrt{25} = 5</math></p> <p>And the direction of point A from the point B is 5km, North east which is option 3.</p>														
84.	4	<table border="1"><tr><td>Amount</td><td>12000</td><td>10000</td><td>8000</td><td>6000</td><td>4000</td><td>2000</td></tr><tr><td>Student</td><td></td><td></td><td>E</td><td></td><td></td><td></td></tr></table> <p>The possible ranking could be:- using options.</p> <p>1. As per statement 1. A won less than B, hence ADEBFC is wrong.</p> <p>2. BAECFD <math>\rightarrow</math> is wrong because the minimum gap b/w F &amp; D is Rs. 4000, which is not as per question</p> <p>3. FBEACD <math>\rightarrow</math> is wrong because the gap of winning b/w C &amp; F is 2000, which is not as per the question</p> <p>4. option 4 is right as it satisfy all the given criteria.</p>	Amount	12000	10000	8000	6000	4000	2000	Student			E			
Amount	12000	10000	8000	6000	4000	2000										
Student			E													
85.	3	<table border="1"><tr><td>Amount</td><td>12k</td><td>10k</td><td>8k</td><td>6k</td><td>4k</td><td>2k</td></tr><tr><td>Student</td><td></td><td></td><td>E</td><td></td><td>A</td><td></td></tr></table> <p>As the difference b/w C &amp; F in amount winning is Rs. 2000, hence the only possible case is when amount won be C &amp; F is 12k &amp; 10k. hence sum of Amount won by C &amp; F = 22000. Which is option 3.</p>	Amount	12k	10k	8k	6k	4k	2k	Student			E		A	
Amount	12k	10k	8k	6k	4k	2k										
Student			E		A											
86.	3	<div></div>														

		<p>The correct placement is between <math>19 \times 16</math> So that then will be 2 sequence 1. -3 &amp; +4 2. +3 as shown in figure</p>															
87.	2	 <p>To minimize the intersection; only statement 2 is a fact i.e. kids who like ice cream also like to play.</p>															
88.	1	<table border="1" data-bbox="431 766 566 850"> <tr> <td>A</td><td>F</td><td>K</td></tr> <tr> <td>H</td><td>M</td><td>R</td></tr> <tr> <td></td><td>T</td><td>Y</td></tr> </table> <p> <math>H - A = 6</math> ; <math>T - M = 6</math>  <math>M - F = 6</math> ; <math>T - R = 6</math>  <math>R - K = 6</math> ; <math>O - H = 6</math>  Hence answer is option 1 i.e. 0. </p>	A	F	K	H	M	R		T	Y						
A	F	K															
H	M	R															
	T	Y															
89.	4	<p>As all option contains F i.e Amar is not a magician Hence BDF is the right pair</p> 															
90.	1	<table border="1" data-bbox="431 1291 1201 1570"> <thead> <tr> <th>Year</th><th>GNP</th><th>NNP</th></tr> </thead> <tbody> <tr> <td>1989-90</td><td><math>\frac{402931 - 348210}{348210} \times 100 = 15.7\%</math></td><td><math>\frac{357285 - 309189}{309189} \times 100 = 15.7\%</math></td></tr> <tr> <td>1990-91</td><td><math>\frac{470252 - 402931}{402931} \times 100 = 16.7\%</math></td><td><math>\frac{418057 - 357285}{357285} \times 100 = 17\%</math></td></tr> <tr> <td>1991-92</td><td><math>\frac{541593 - 470252}{470252} \times 100 = 15.17\%</math></td><td><math>\frac{479001 - 418057}{418057} \times 100 = 14.5\%</math></td></tr> <tr> <td>1992-93</td><td><math>\frac{615831 - 541593}{541593} \times 100 = 13.7\%</math></td><td><math>\frac{543566 - 479001}{479001} \times 100 = 13.5\%</math></td></tr> </tbody> </table> <p>Hence the answer is option 1989 – 90</p>	Year	GNP	NNP	1989-90	$\frac{402931 - 348210}{348210} \times 100 = 15.7\%$	$\frac{357285 - 309189}{309189} \times 100 = 15.7\%$	1990-91	$\frac{470252 - 402931}{402931} \times 100 = 16.7\%$	$\frac{418057 - 357285}{357285} \times 100 = 17\%$	1991-92	$\frac{541593 - 470252}{470252} \times 100 = 15.17\%$	$\frac{479001 - 418057}{418057} \times 100 = 14.5\%$	1992-93	$\frac{615831 - 541593}{541593} \times 100 = 13.7\%$	$\frac{543566 - 479001}{479001} \times 100 = 13.5\%$
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91.	3	<p>Visually we can compare that The growth pattern has been different for both indicators during period under review , hence answer is option 3</p>															
92.	2	<p> PEACE <math>\rightarrow</math> RGCEG  <math>R \rightarrow P = +2</math> ; <math>E \rightarrow C = 2</math>  <math>G \rightarrow E = +2</math> ; <math>G \rightarrow E = 2</math>  <math>C \rightarrow A = +2</math>  Hence MICKY <math>\rightarrow</math> OKEMA  Which is option 2 </p>															
93.	3	<p>As per question <math>A &gt; B &gt; C</math> ; which is not true?</p> <p>1. <math>A \ \\$ \ B \ \Delta \ C \ A \ \nless B</math> then <math>A \geq B</math></p> <p style="text-align: right;"><math>B \ \Delta \ C \ B &gt; C</math></p> <p>Hence <math>A \ \\$ \ B \ \Delta \ C = A \geq B &gt; C</math></p> <p>2. <math>C + B \times A \rightarrow C + B = C \nless B = B \geq C</math></p> <p style="text-align: right;"><math>B \times A = &lt; A</math></p>															

		<p>Hence <math>C + B \times A = C \leq B &lt; A</math>.</p> <p>3. <math>A \times B \ominus C = B \ominus C = B = C</math></p> <p style="text-align: right;"><math>A \times B = A &lt; B</math></p> <p>Hence <math>A &lt; B = C</math> is not correct. Hence answer is option 3.</p>																																																			
94.	4	<div></div> <p>By using all the figures; the face opposite to 3 is 4. i.e. option 4.</p>																																																			
95.	3	By visualisig the Area which indicate faculty members who are research scholars but one neither Americans nor Indians = k i.e. option 3.																																																			
96.	3	By visualising “C” is the Area which indicate Indian Americans who are faculty members but not research scholars. i.e. option 3.																																																			
97.	4	<div></div> <p>The correct direction is North West. Hence answer is option 4.</p>																																																			
98.	2	<p><math>N \times K - M \div L</math> <math>M \div L</math> M is sister of L <math>N \times K \rightarrow</math> N is Brother of K. <math>K - M \rightarrow</math> M is son of K</p> <div></div> <p>Hence answer is option 2.</p>																																																			
99-100.		<table><tr><td></td><td>Rama</td><td>Sudha</td><td>Tara</td><td>Uma</td><td>Veena</td></tr><tr><td>Upama</td><td>×</td><td>×</td><td>×</td><td>√</td><td>×</td></tr><tr><td>Dosa</td><td>×</td><td>×</td><td>√</td><td>×</td><td>×</td></tr><tr><td>Idli</td><td>×</td><td>×</td><td>×</td><td>×</td><td>√</td></tr><tr><td>Uttapa</td><td>√</td><td>×</td><td>×</td><td>×</td><td>×</td></tr><tr><td>Paratha</td><td>×</td><td>√</td><td>×</td><td>×</td><td>×</td></tr></table> <table><tr><td>Mon</td><td>Tue</td><td>Wed</td><td>Thur</td><td>Fri</td></tr><tr><td>Uttapa</td><td>Paratha</td><td>Dosa</td><td>Upama</td><td>Idli</td></tr><tr><td>Roma</td><td>Sudha</td><td>Tara</td><td>Uma</td><td>Veena</td></tr></table>		Rama	Sudha	Tara	Uma	Veena	Upama	×	×	×	√	×	Dosa	×	×	√	×	×	Idli	×	×	×	×	√	Uttapa	√	×	×	×	×	Paratha	×	√	×	×	×	Mon	Tue	Wed	Thur	Fri	Uttapa	Paratha	Dosa	Upama	Idli	Roma	Sudha	Tara	Uma	Veena
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99.	4	Taracook dosa on Wednesday option 4																																																			
100.	3	Uma pnpares upama on Thursday option 3.																																																			
101.	2	<p><math>\rightarrow \text{Kunal} + \text{Rahul} \leq 14</math></p> <p><math>\rightarrow \text{Kunal} \geq \text{Charan} \ \&amp; \ \text{Rahul} = 5</math></p> <p>Hence kunal = 9</p>																																																			



102-104.		<p>Sachin 80      Mahendra Singh Dhoni 90</p> <p>40      30      20      10</p> <p>40      30      0</p> <p>Sourav 60</p>
102.	2	<p>Total number of student don't choose Sachin, Sourav or Dhoni</p> <p>Number of student choose at least 1 = <math>(80+90+60 - 40 - 50 - 30 + 10) = 120</math></p> <p>Number of student + didn't choose anyone = <math>500 - 120 = 380</math></p>
103.	4	How many like sourav but not tendulkar. $\Rightarrow$ By figure the correct answer is option 4. i.e. none of these = 20
104.	2	<p>How many like fewer than two cricketers</p> <p>= <math>500 - (\text{Exactly 2} + \text{Exactly 3})</math></p> <p>= <math>500 - (100) = 400</math></p>
105.	3	<p><math>7 \rightarrow \text{CBRT } 343 \text{ coded as cuberoot } 343 = 7</math></p> <p>Hence cuberoot 729 = CBRT 729 = 9. Hence answer is option 3.</p>
106.	2	<p>H   E   L   L   O</p> <p>↓   ↓   ↓   ↓   ↓</p> <p>8   5   12   12   5</p> <p><math>\Rightarrow</math> reverse of alphabnet position 15 12 12 5 8</p> <p>Hence is coded as:-</p> <p>W   H   E   R   E</p> <p>↓   ↓   ↓   ↓   ↓</p> <p>23   8   5   18   5</p> <p><math>\Rightarrow</math> 5 18 5 8 2 3 i.e. option 2.</p>
107.	1	<p><u>3   10   59   ?</u></p> <p><math>10 - 3 = 7 = 7^1</math></p> <p><math>59 - 10 = 49 = 7^2</math></p> <p><math>7^3 + 59 = 343 + 59 = 402</math>. Which is option 1.</p>
108.	3	<p>WOOD <math>\rightarrow 23 \mid 225 \mid 4</math></p> <p>W = 23</p> <p>O = 15</p> <p>O = 15</p> <p>D = 4</p> <p>Hence <math>23 \mid 15 \times 15 \mid 4</math>.</p> <p>Hence = MEET i.e.</p> <p>= <math>13 \mid 5 \times 5 \mid 20</math></p> <p>= <math>13 \mid 25 \mid 20</math> i.e. option 3.</p>
109.	2	In this question we have to find the sector in which % composition is increasing:- The only sector which is increasing 6 <sup>th</sup> & 7 <sup>th</sup> plan is communication. Hence Ans. is option 2.
110.	2	In 8 <sup>th</sup> plan period $\rightarrow$ the % share in public sector investment has been highest :- will be that sector which have highest figure in the public sector column i.e. Electricity, Gas and water. Hence answer is option 2.
111.	1	
112.	3	
113.	3	
114.	2	
115.	4	
116.	1	
117.	2	
118.	1	
119.	3	
120.	3	



# Bulls Eye

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121.	2	
122.	3	
123.	1	
124.	4	
125.	3	
126.	3	
127.	2	
128.	1	
129.	1	
130.	3	
131.	3	
132.	3	
133.	1	
134.	3	
135.	3	
136.	2	
137.	3	
138.	1	
139.	2	
140.	2	
141.	2	
142.	1	
143.	1	
144.	2	
145.	4	
146.	3	
147.	3	
148.	1	
149.	4	
150.	1	

**SECTION – I**

**General English**

**Number of questions: 40**

1. Which of these is not a compound word?
1. Hard-wired                      2. Run-of-the-mill                      3. Bottleneck                      4. Minestrone
2. Find the antonym of 'Native' is
1. Tarnished                      2. Characteristic                      3. Intrinsic                      4. Exotic
3. A shortfall in supplies would knock the bottom out of the engineering industry. What does "knock the bottom out of" stand for?
1. Make it baseless                      2. Shake its foundation  
3. Cause it to collapse                      4. None of the above
4. Choose the word with correct spellings
1. Demurrage                      2. Demurage                      3. Demmurrage                      4. Demurragge

**DIRECTIONS for question 5 to 9: Fill in the blanks with proper answers.**

5. \_\_\_\_\_ the stable door after the horse has bolted.
1. Lock                      2. Shut                      3. Close                      4. Open
6. There were \_\_\_\_\_ viewers than expected.
1. Fewer                      2. Less                      3. Many                      4. Lesser
7. \_\_\_\_\_ when, after waiting for hours, we were told the tickets were sold out.
1. We were at the end of our tether                      2. We were on edge  
3. Tempers frayed                      4. Nerves frayed
8. Your proficiency in the French language depends on how hard you work \_\_\_\_\_ if you live in the culture of your target language, you will learn even more quickly.
1. Likewise                      2. Hence                      3. Furthermore                      4. In fact
9. The government is planning to sell PSUs \_\_\_\_\_ BHEL, SAIL and NTPC \_\_\_\_\_ first wants a regulatory agency \_\_\_\_\_ the IRDA to assess their worth.
1. like/and/like                      2. like/but/such as                      3. such as/so/like                      4. such as/but/like
10. Choose the sentence which is grammatically correct
1. I was struck in traffic jam                      2. I struck in traffic jam  
3. I was struck up in traffic jam                      4. I was struck upon traffic jam

**11.** Choose the option having correct word order in the following statements :-

1. Immigrant communities in the U.S have brought renewed pressure after the catastrophic terrorist attacks on the World Trade Center in New York in 2001.
2. The aftermath of the catastrophic terrorist attacks on the World Trade Center in New York in 2001 has brought renewed pressure on immigrant communities in the U.S.
3. The World Trade Center, after the catastrophic terrorist attacks in New York in 2001, has brought renewed pressures on immigrant communities in the US.
4. In 2001, the aftermath of the catastrophic terrorist attacks on the World Trade Center in New York has brought renewed pressures on immigrant communities in the US.

**12.** The football team travelled \_\_\_\_\_ Train.

1. in
2. by
3. from
4. On

**13.** Choose the correct synonym for: Attenuate

1. Enervate
2. Attention
3. Awaken
4. Trigger

**14.** Choose the antonym for: Cajole

1. Dissuade
2. Beguile
3. Flatter
4. Blandish

**15.** Choose the correct synonym for: Consanguinity

1. Affinity
2. Corpulent
3. Estrangement
4. Anarchy

**DIRECTIONS for question 16 to 22: Fill in the blanks with proper answers:-**

**16.** Autotomy is the ability of an animal to \_\_\_\_\_ a part of its body at will to save itself from predators and attackers.

1. Cast off
2. Cast away
3. Cut off
4. Cut down

**17.** They all stared \_\_\_\_\_ as the door of the dilapidated house swung open.

1. with bated breath
2. in beeline
3. in the same boat
4. a bone of contention

**18.** But at a time when business values are falling, stakeholders tend not to take kindly to a knock-down price.

1. Selling the family silver
2. Selling one's soul
3. Selling yourself short
4. Selling someone a pup

**19.** Although this political party has reputation for \_\_\_\_\_, its behaviour towards the public has always been \_\_\_\_\_, suggesting it may not be as insolent as has been projected by its competitor.

1. Vendibility, Impertinent
2. Secrecy, Uniform
3. Temerity, Courteous
4. Nepotism, Varied

20. The company believes in getting value for money and it is wrong of the employees to view its \_\_\_\_\_ as \_\_\_\_\_
1. Forehandedness, Stinginess                      2. Reserve, Levity  
3. Insolence, Shortage                                4. Indolence, Destitution
21. In the midst of radiantly beautiful women, this homely woman looked strikingly \_\_\_\_\_ but it transpired later that she was an arbitrator and not \_\_\_\_\_
1. unattractive, an adjudicator                      2. incongruous, a contestant  
3. dejected, a raconteuse                              4. personable, an audience
22. This author is not outspoken on political issues and her writings are more famous for their aesthetic qualities than for their \_\_\_\_\_ ones.
1. Polemical                      2. Commercial                      3. Contemporary                      4. Dramatic
23. Choose the word with correct spellings
1. Perniceous                      2. Pernicious                      3. Pemiciuos                      4. Pernecious

**DIRECTIONS for questions 24 to 26:** Read the given passage and answer the questions.

Read not to contradict and confute, nor to believe and take for granted, nor to find talk and discourse, but to weigh and consider. Some books are to be tasted, others to be swallowed, and some few to be chewed and digested; that is, some books are to be read only in parts; others to be read, but not curiously; and some few to be read wholly, and with diligence and attention. Some books may also be read by deputy, and extracts made of them by others; but that would be only in the less important arguments and the meaner sort of books; else distilled books are like common distilled waters, flashy things. Reading makes a full man, conference a ready man, and writing an exact man. And therefore if a man write little, he had need have a good memory; if he confer little, he had need have a present wit; and if he read little, he had need have much cunning to seem to know that he doth not.

Histories make men wise, poets witty, the mathematics subtle, natural philosophy deep, moral grave, logic and rhetoric able to contend.

(Source- *Of Studies*- Francis Bacon)

24. What should be the real object of reading?
1. To distil the contents  
2. To understand author's views and their application in day- to -day life  
3. To have a good memory  
4. To weigh and consider
25. The word 'confute' in the passage means
1. To argue                      2. To refuse                      3. To disapprove                      4. To doubt
26. What can be done with regard to the 'meaner' sort of books?
1. To be read but not to contradict and confute  
2. To be read curiously  
3. To be read, but not curiously  
4. They can be "read by deputy and extracts made of them by others.

**DIRECTIONS for questions 27 to 32:** Read the given passage and answer the questions.

### PROBLEMS FACING POTENTIAL EXPORTERS

Many firms fail because when they begin exporting, they have not researched the target markets or have not developed an international marketing plan to be successful. A firm must clearly define goals objectives and potential problems. Secondly it must develop a definitive plan to accomplish its objective regardless of problems involved. Unless the firm is fortunate enough to possess a staff with considerable expertise, it may not be able to take this crucial first step without qualified outside guidance.

Often top management is not committed enough to overcome the initial difficulties and financial requirements of exporting. It can often take more time and effort to establish a firm in a foreign market than in domestic one. Although the early delays and costs involved in exporting may seem difficult to justify when compared to established domestic trade the exporter should take a more objective view of this process and carefully monitor international marketing efforts through these early difficulties. If a good foundation is laid for export business the benefits derived should eventually out-weigh the investment.

Another problem area is in the selection of foreign distributor. The complications involved in overseas communications and transportation require international distributors to act with greater independence than their domestic counterparts also since a new exporter's trademarks and reputation is usually unknown in the foreign market. Foreign customers may buy on the strength of distributing agent's reputation. A firm should therefore conduct a thorough evaluation of the distributor's facilities, the personnel handling its account and managements methods employed.

Another common difficulty for new exporter is the neglect of the export market once the domestic one booms: too many companies only concentrate on exporting when there is recession. Others may refuse to modify products to meet the regulations or cultural preferences of other countries. Local safety regulations cannot be ignored by exporters. If necessary modifications are not made at the factory the distributor must make them, this is usually at a greater cost and probably not as satisfactory as it should be. It should also be noted that the resulting smaller profit margin makes the account less attractive.

If exporters expect distributing agents to actively promote their accounts they must be trained and their performance must be continually monitored. This requires a company's marketing executive to be located permanently in the distributor's geographical areas until there is sufficient business to support the representative. The distributor should also be treated on an equal basis with domestic counterparts for e.g. special discount offers, sales incentive programmes and special credit terms should be available.

Considering a joint venture or licensing agreement is another option for new exporters. However, many companies still dismiss international marketing as unviable. There are a number of reasons for this. There may be import restrictions in the target market. The company may lack sufficient financial resources or its product line may be too limited. Yet many products that can compete on a national basis can be successful in the majority of world markets. In general, all that is needed for success is flexibility in using the proper combinations of marketing techniques.

**27.** In the first paragraph, the writer suggests that firms thinking about exporting should

- |   |   |
|---|---|
| 1. get professional advice              | 2. study international marketing                |
| 3. identify the most profitable markets | 4. have different objectives to other exporters |

**28.** The writer believes that if sufficient preparation is undertaken

1. initial difficulties can be easily avoided
2. the costs can be recovered quite quickly
3. management will become more committed
4. the exporter will be successful in the long term

- 29.** An exporter should choose a distributor who
1. has experienced personnel
  2. has good communication skills
  3. is well established in the target market
  4. is not financially dependent on import business
- 30.** New exporters often make the mistake of ignoring the export market when
1. distribution costs are too high
  2. their product is selling well at home
  3. there is a global economic recession
  4. distributors cannot make safety modifications
- 31.** For a distributor to be successful, the exporter must
1. focus on one particular region
  2. finance local advertising campaigns
  3. give the same support as to domestic agents
  4. make sure there are sufficient marketing staff locally
- 32.** The writer states that some companies are reluctant to export because
1. there is little demand for their products
  2. the importation of certain goods is controlled
  3. they do not have good marketing techniques
  4. they are not able to compete with local business
- 33.** The kids were all coming to the pool. The pool attracted kids like \_\_\_\_\_
1. rain to the desert sands
  2. elephants to water
  3. a balloons to helium
  4. flies to honey
- 34.** If thieves \_\_\_\_\_ our house, I \_\_\_\_\_ frightened to death.
1. will enter, would be
  2. enter, would be
  3. would enter, would be
  4. enter, would have been
- 35.** The enemy turned \_\_\_\_\_ and ran away as soon as it saw the brave warrior.
1. Back
  2. Tail
  3. Face
  4. Feet
- 36.** Vodafone \_\_\_\_\_ and initiated a fresh style in television advertising.
1. broke new ground
  2. cut the ground
  3. cut corners
  4. prepared the ground
- 37.** He took to \_\_\_\_\_ his impatience indiscriminately, on whoever happened to be at hand.
1. giving free rein to
  2. Airing
  3. Venting
  4. All of the above
- 38.** He provides a \_\_\_\_\_ sketch of the political values, strategy and practices of these diverse civilisations.
1. Thumbnail
  2. Thumbling
  3. Thumbprint
  4. None of the above

- 39.** "This desk is more square than that one" is an erroneous Statement, the correct statement would be:
1. This desk is squarer than that one
  2. This desk is more nearly square than that one.
  3. This desk is most square than that one.
  4. This desk is much more, square than that one.
- 40.** "Haifa loaf is better than no bread" means
1. God helps those who help themselves
  2. When a bad thing happens, there is always a positive side to it.
  3. You should be happy with what you have even if it is less than what you want.
  4. Don't be upset by trivialities



**SECTION – II**

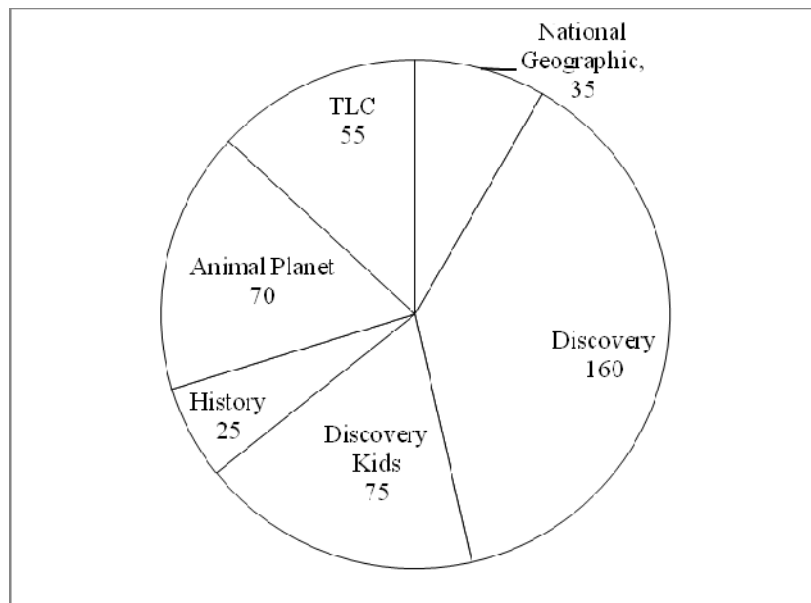
**Quantitative, Data Interpretation and Data Sufficiency**

**Number of questions: 40**

41. The line joining the points (5, 2) and (6, -15) subtends a right angle at the point:
1. (-1, 2)
  2. (0, 7)
  3. (0, 0)
  4. Insufficient Data
42. Find the least positive integer which when divided by 2 gives remainder 1, when divided by 3 gives remainder 2, when divided by 4 gives remainder 3 and when divided by 5 gives remainder 4?
1. 33
  2. 59
  3. 61
  4. 49
43. How many numbers exist between 100 and 1000 which are divisible by 7?
1. 142
  2. 138
  3. 60
  4. 128
44. Two athletes A and B are running on a 900m long track from opposite ends, their speeds are in the ratio of 4: 5, when will they cross each other:
1. 500m from A's end
  2. 400m from B's end
  3. 400m from A's end
  4. 100m from A's end
45. Find the domain of the expression  $Y = \sin x + \log x$
1.  $(-\infty, \infty)$
  2.  $(-\infty, 0)$
  3.  $(0, \infty)$
  4.  $(0, 1)$
46. The expression  $x^4 + 5x^2 + 36$  can be factorized as
1.  $(x^2 + x + 1)(x^2 - x + 36)$
  2.  $(x^2 - x + 6)(x^2 + 4x + 6)$
  3.  $(x^2 - x + 6)(x^2 + x + 6)$
  4. None of the above
47. There are 4 members in a committee. If one of them is replaced by a younger member such that the average age of the committee is as it was 6 years ago. The new member is how many years younger than the member replaced?
1. 42 years
  2. 24 years
  3. 6 years
  4. None of the above
48. The probability that a builder will get a construction contract is  $\frac{3}{4}$  and the probability that he will not get the electrical contract is  $\frac{7}{9}$ . If the probability of getting at least one contract is  $\frac{5}{6}$ , what is the probability that he will get both?
1.  $\frac{5}{36}$
  2.  $\frac{5}{6}$
  3.  $\frac{5}{9}$
  4. None of the above
49. In how many ways can 21 identical books on Literature and 19 identical books on Nature be placed in a row on a shelf so that two books on Nature may not be together?
1. 4620
  2. 3672
  3. 1540
  4. None of the above

- 50.** A sphere of radius 4 cm is dropped into a cylindrical vessel partly filled with water. The radius of the vessel is 8 cm. if the sphere is submerged completely, by how much will the surface of the water be raised?
1.  $\frac{3}{4}$  units                      2.  $\frac{4}{3}$  units                      3.  $\frac{1}{4}$  units                      4. None of the above
- 51.** A solid metal cylinder of radius 5 cm and height 12 cm is melted to make solid balls of radius 1 mm. How many such balls are produced (in lakhs)?
1. 2.5                      2. 2.25                      3. 1.5                      4. None of the above
- 52.** The value of  $\log_{(1/4)} 256$  is equal to
1. 64                      2. 16                      3. -4                      4. None of the above
- 53.** A salesman's commission is 6% on all sales upto Rs. 15000 and 4% on all sales exceeding this amount. He remits Rs. 30000 to his parent company after deducting his commission. Find the total sales.
1. Rs. 31562.5                      2. Rs. 31500.5                      3. Rs.32570.5                      4. None of the above
- 54.** If 60% of  $(x-y) = 40\%$  of  $(x+y)$ , then what percent of  $x$  is  $y$ ?
1. 20%                      2. 25%                      3. 22%                      4. None of the above
- 55.** The investments of A and B in a business is in ratio 4: 5 and the period of their investments is in the ratio 9: 8. Their profit will be in the ratio?
1. 9: 10                      2. 9: 8                      3. 8: 11                      4. None of the above
- 56.** A new watch was purchased and it was showing 6 o'clock. The purchaser was soon informed that the hour hand and minute hand had been interchanged and attached to the wrong axes. This resulted in the hour hand to move with a speed which is twelve times higher than the minute hand. Hence the watch was taken to the mechanic for repair, at that moment the watch showed the right time! If the clock started at 6 o'clock in the correct position, then what was the first moment that the watch showed the correct time?
1.  $6\frac{5}{11}$  minutes past 9                      2.  $5\frac{5}{11}$  minutes past 7  
 3.  $7\frac{5}{11}$  minutes past 7                      4. None of the above
- 57.** If  $x + y + z = \pi$  then  $\cot x/2 + \cot y/2 + \cot z/2$  will be equal to
1.  $\tan x/2 \times \tan y/2 \times \tan z/2$                       2.  $\cos x/2 \times \cos y/2 \times \cos z/2$   
 3.  $\cot x/2 \times \cot y/2 \times \cot z/2$                       4. None of the above
- 58.** If  $y^2 + 7ay + 40 = 0$  and  $y^2 + 2ay - 60 = 0$  have a common root, then the value of  $a$  is
1.  $\pm 4$                       2.  $\pm 2$                       3.  $\pm 5$                       4.  $\pm 6$

**DIRECTIONS for question 59 to 63:** These questions are based on the following pie chart which shows the viewership of different knowledge based channels (in degrees) in the month of December, 2013. There are no overlaps in viewership of channels.



59. During the given period for how many channels is the viewership more than 25% of the total viewership?
1. 1                      2. 2                      3. 3                      4. None of the above
60. If 70,000 people watched National Geographic on an average per day in December, 2013 then how many more people watched Discovery than History on an average per day for the same period?
1. 3,60,000              2. 36,000              3. 2,70,000              4. None of the above
61. If the viewership of TLC on an average was 55,000 per day, then what was the viewership for all the channels on an average per day?
1. 3,60,000              2. 5,40,000              3. 6,30,000              4. None of the above
62. If the viewership of Discovery Kids channel for the first half of December is half of that of the second half of December, then what is the ratio of viewership of Discovery Kids for the second half to that of TLC for the whole month?
1. 8:9                      2. 10:11                      3. 9 : 10                      4. None of the above
63. By mistake the viewership of Discovery Kids has been under quoted by 25%. If this mistake is corrected then what is the correct share of viewership of Discovery?
1. 45 %                      2. 41.55%                      3. 39.15%                      4. None of the above
64. How many three digit positive integers exist that when divided by 6 leave a remainder of 4?
1. 149                      2. 150                      3. 151                      4. 152

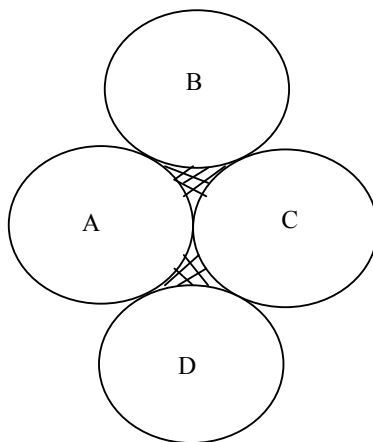
65. A person grows sunflowers in his Square Shaped farm. One sunflower takes 1 square feet of area in his farm. This year he has increased his output by 241 Sunflowers as compared to last year. The shape of the farm used for growing the Sunflowers has remained the same, both the years. How many Sunflowers did he in total produce this year?

1. 12544                      2. 12996                      3. 14641                      4. 15876

66. A box contains 11 cards with 1 to 11 consecutive numbers. If we take 5 cards in random without replacement from this box, what is the probability that the median of the numbers selected is 3?

1.  $\frac{13}{189}$                       2.  $\frac{11}{128}$                       3.  $\frac{14}{231}$                       4. None of the above

67. In the given figure if A, B, C, D are Centers of the Circles and the radius of each Circle is  $7\sqrt{3}$  units then what is the area of the shaded region?



1.  $74[\sqrt{3} - \pi/2]$                       2.  $49[\sqrt{3} - \pi/2]$                       3.  $300[\sqrt{3} - \pi/2]$                       4.  $294[\sqrt{3} - \pi/2]$

68. Instead of dividing Rs. 180/- among A, B,C in the ratio  $\frac{1}{3} : \frac{1}{4} : \frac{1}{6}$  respectively, it was divided in the ratio 3: 4: 6 by mistake. Who gained in this transaction?

1. Only A                      2. Only B                      3. Only C                      4. Both B and C

69. The sum of ages of mother and daughter is 42 years. After three years the age of mother will be three times that of the daughter. Then the mother's age after three years will be?

1. 28                      2. 33                      3. 36                      4. 38

70. Find the missing number in the series 2, 5, 11, 20, 32, 47, \_\_, 86

1. 60                      2. 65                      3. 58                      4. 62

71. One number in the given series is wrong. Find out the wrong one.  
91,74,59,47,35,26,19,

1. 47                      2. 35                      3. 26                      4. 19

- 72.** A player can take a maximum of 4 chances to hit a bottle with a flying disc. The probability of hitting the bottle at the first, second, third and fourth shots are 0.1, 0.2, 0.35 and 0.45 respectively. What is the probability that the player hits the bottle with the flying disc?
1. 0.6573                      2. 0.2574                      3. 0.7426                      4. None of the above
- 73.** If  $\log 2 = 0.30103$  and  $\log 3 = 0.4771$ , then number of digits in  $(10368)^6$  will be approximately equal to
1. 15 digits                      2. 25 digits                      3. 30 digits                      4. 40 digits
- 74.** What is the measure of the angle between the hands of the clock at 8:24 p.m.?
1. 100 degree                      2. 102 degree                      3. 106 degree                      4. 108 degree
- 75.** A train after travelling for a certain distance develops a problem and decreases its speed to half its original speed and reaches its destination 45 minutes late. Had the problem occurred 30 km further on, it would have reached its destination 15 minutes earlier. What is the speed of the train?
1. 30 km/hr                      2. 90km/hr                      3. 120km/hr                      4. 150km/hr
- 76.** A manufacturer sells a good to a wholesale dealer at a profit of 18%. The wholesaler sells the same to a retailer at a profit of 20%. The retailer in turn, sells it to the customer for Rs. 30.09/- (Rupees thirty and paise nine only) thereby earning profit of 25%. What is the cost of the manufacturer?
1. Rs. 15.30/-                      2. Rs. 17.00/-                      3. Rs. 20.00/-                      4. Rs. 22.00/-
- 77.** If Rs. 1000/- is invested at an interest rate of 5% p.a. and the interest earned is added to the principal every 10 years, then after how many years will the amount become Rs.2000/-?
1.  $\frac{20}{3}$                       2.  $\frac{50}{3}$                       3.  $\frac{25}{4}$                       4. None of the above
- 78.** Two pipes of P and Q can fill a tank A in 10 hrs and 12 hrs respectively. A third pipe R can empty a tank B in 40 hrs. Tank B is two times in volume compared to tank A. If P and Q are kept open to fill tank A if R is connected to empty tank A at the same time such that all the pipes operate simultaneously, how long will take for the tank A to be fully filled?
1. 6 hrs 40 minutes                      2. 8 hrs 30 minutes                      3. 7 hrs 30 minutes                      4. None of the above
- 79.** ABCD is a trapezium and AB is parallel to CD. AB has a length, which is two times the length of CD. If the diagonals of the trapezium intersect at O, then the ratio of areas of  $\triangle AOB$  and  $\triangle COD$  triangle is
1. 1: 4                      2. 4: 1                      3. 1: 2                      4. 2: 1
- 80.** The MRP of a chocolate is Rs.65/-. A customer purchased the chocolate for Rs.56.16/- (Rupees fifty six and paise sixteen only). He got two successive discounts of which one is 10%. Find the other discount of the discount scheme that was given by the seller.
1. 3%                      2. 4%                      3. 5%                      4. None of the above

**GENERAL AWARENESS**

- 81.** What is the full-form of RSVP?
1. rigorous session of voice protocol
  2. repondez, s'ilvous plait
  3. repondez, sans vous plaint
  4. response sought vous plaint
- 82.** The Callanish Stones, which are considered to be petrified giants, as per a folklore, who did not convert to Christianity, are located in which country:
1. Norway
  2. Wales
  3. Scotland
  4. Ireland
- 83.** Which of the following sites or monuments is not in the UNESCO list of World Heritage Sites?
1. Humayun's Tomb at Delhi
  2. Kaziranga Natural Park in Assam
  3. Tirupati Temple
  4. Agra Fort
- 84.** Mr. Ramon Magsaysay, in whose name the prestigious Magsaysay award is given, belonged to:
1. Malaysia
  2. Thailand
  3. Philippines
  4. Indonesia
- 85.** Indian musician noted for his exemplary skills at playing mandolin who died in 2014:
1. Uppalapu Srinivas
  2. Amjad Ali Khan
  3. Zarin Daruwalla
  4. Ustad Usman Khan
- 86.** In the Fifth meeting of SAARC Energy Ministers, which from the following has been the key area of discussion:
1. Telecom
  2. Environment
  3. Power Grid
  4. Education
- 87.** Malaysian Airlines Flight MH17 was a scheduled international passenger flight, presumed to have been shot down, crashed on 17 July 2014 killing all 283 passengers and 15 crew on board was flying,
1. from Amsterdam to Kuala Lumpur
  2. from Kuala Lumpur International Airport to Beijing Capital International Airport
  3. from Kuala Lumpur to Amsterdam
  4. from Beijing Capital International Airport to Kuala Lumpur International Airport
- 88.** Ukraine has been in news recently on account of conflict with Russia. The name of the Ukrainian President is:
1. Petro Poroshenko
  2. Viktor Yushebenko
  3. Yulia Timoshenko
  4. None of the above
- 89.** Oldest brand of the Tata Group is
1. The Taj Palace and Tower
  2. Ginger
  3. Taj Cape Town
  4. Quilon
- 90.** 'Gold fixing' refers to setting the price of gold. Where is the value of gold set?
1. New York
  2. London
  3. Tokyo
  4. Singapore

- 

1. Cannes International Film Festival
2. Berlin International Film Festival
3. London Film Festival
4. Amnesty International Film Festival

- 101.** The Giant Panda, world's most threatened species is a symbol of:
1. IFAW
  2. WWF
  3. CEE
  4. UNEP
- 102.** Acid rain is caused mainly due to the emissions of
1. Calcium oxide and sulfur dioxide
  2. Nitrogen oxide and sulfur dioxide
  3. Sodium oxide and nitrogen oxide
  4. Calcium oxide and carbon dioxide
- 103.** Which of the given rivers does not flow into River Ganga?
1. Brahmaputra
  2. Gomti
  3. Gandak
  4. Tapti
- 104.** The International agreement for control of Green House Gas (GHG) emissions is named
1. Adelaide Agreement
  2. Kyoto Protocol
  3. Manila Convention
  4. Kuala Lumpur Treaty
- 105.** The International Standard which checks the compliance of the environmental practices of an organization against the best practices followed in the industry is
1. ISO 9001
  2. TS 16949
  3. ISO 14001
  4. ISO 9002
- 106.** Comiket the world's largest comic festival is held in which country?
1. Japan
  2. France
  3. Korea
  4. Germany
- 107.** In \_\_\_\_\_ Infosys was listed in NASDAQ and in \_\_\_\_\_ Infosys became a part of NASDAQ 100
1. 1998,2009
  2. 1997,2008
  3. 1999,2006
  4. None of the above
- 108.** The Indian team finished with 8<sup>th</sup> position in the recent Asian games 2014 held at South Korea with a total tally of medals.
1. 57
  2. 37
  3. 56
  4. 58
- 109.** A full moon occurs once every
1. 14 days
  2. 30 days
  3. 21 days
  4. 15 days
- 110.** The River Danube empties in
1. The Dead Sea
  2. The Mediterranean Sea
  3. The Black Sea
  4. The Red Sea
- 111.** Cartography is the study of:
1. Cartilages and Bones
  2. Cartoons
  3. Maps
  4. Carrots



- 112.** Regional rural banks are jointly owned by
1. Central government, a commercial bank and Central bank of a country
  2. Central government, a commercial bank and a state government
  3. Central government, Central bank and a state government
  4. A commercial bank, Central bank of a country and a state government
- 113.** The famous Meenakshi Temple in Madurai was built by and beautified by the
1. Vakatakas, Nayaks
  2. Chalukyas, Chollas
  3. Satavahanas, Chollas
  4. Pandyas, Nayaks
- 114.** Which of the given statements is not correct as per Indian constitution?
1. There can be a single person as the Governor for two or more states.
  2. Governor is the Constitutional or nominal head of the State Executive and is bound by the advice of the State Council of Ministers.
  3. All executive actions of the State shall be expressed to be taken in the name of the Chief Minister.
  4. The President of India consults the Governor on appointment of the High Court judges.
- 115.** Kwan Yin has a special place in Buddhist tradition and is known:
1. To represent healing nature
  2. To bring in good luck charm
  3. As a Goddess of compassion
  4. As Related to higher psychological-scientific teachings from Buddha
- 116.** "Bachpan Bachao Andolan" was initiated by
1. Jawaharal Nehru
  2. Kailash Satyarthi
  3. Malala'Yusefzai
  4. Benejer Bhotto
- 117.** Dr Ram Manohar Lohia, the great freedom fighter and thinker, established a political party named
1. Samajwadi Party
  2. Samyukta Socialist Party
  3. Janata Party
  4. Praja Socialist Party
- 118.** The Nobel Prize in Physics 2014 was awarded jointly to three scientists "for the invention of efficient blue light-emitting diodes which has enabled bright and energy-saving white light sources". Who among the given four names was not in the team?
1. Isamu Akasaki,
  2. Hiroshi Amano
  3. Shuji Nakamura
  4. Takada Ekimano
- 119.** Chandrasekhar Venkat (CV) Raman was awarded the Nobel Prize for investigation into 'Raman Effect', a phenomenon that deals with
1. Change in the speed of light as it passes through a transparent medium
  2. Change in the atomic structure of the medium impacted by light
  3. Change in the wavelength of the light as it passes through a transparent medium
  4. Change of light in liquid crystals alone
- 120.** "Working towards a world free of poverty" is a motto of one of these International organizations:
1. UNESCO
  2. UNICEF
  3. WORLD BANK
  4. UNCTAD

### SECTION – IV

#### Analytical & Logical Reasoning

Number of questions: 40

121. Vertex : Pyramid : \_\_\_\_\_ : \_\_\_\_\_

1. Strand : Hair      2. Rung : Ladder      3. Summit: Mountain      4. Frame : Picture

122. Piety : Pilgrim : Curiosity : \_\_\_\_\_

1. Explorer      2. Pinchpenny      3. Gamester      4. Monk

**DIRECTIONS for question 123 to 124:** Read the paragraphs carefully and determine the main point the author is trying to make. What conclusion can be drawn from the argument? Each paragraph is followed by four statements. One statement supports the author's argument better than the others do.

123. Nowadays people are so busy in their work that they do not take care of their health. A lot of diseases like diabetics, arthritis, heart attack, blood pressure are increasing due to unhealthy lifestyle. People do not find time to exercise. Stress is continuously increasing. The fast food is quick, easy and tastes better but it is not healthy. Habits like smoking and drinking alcohol have many side effects. Polluted city environment has also negative impact on the health of citizens. To live happy and healthy life; it is important to take care of oneself.

1. Nowadays everybody smokes and drinks.  
 2. Diseases are increasing only because of pollution.  
 3. People are happy and stress free because their life is too busy.  
 4. Current city environment, life style and habits are affecting health of citizens.

124. Diwali is a festival of lights; which signifies that good will always be better than evil. In the present day many people have developed a lot of negativity in their minds and hearts, which has led to high corruption and higher crime rates. Value based education is the need of the day to eliminate darkness of cruelty, selfishness and greed and bring the light of wisdom, peace, kindness, truthfulness, right attitude, hard work and co-operation. Mahatma Gandhi also said that we should eradicate sins from hearts not the sinners. If a society has people with good heart, it will definitely flourish.

1. Nowadays nobody is good  
 2. Nowadays everybody is corrupt and criminal.  
 3. Value based education can save the society from crime and corruption.  
 4. It is not possible to fight against corruption as everybody is corrupt.

125. If  $X + Y$  means X is the mother of Y;  $X - Y$  means X is the brother Y;  $X \% Y$  means X is the father of Y and  $X \times Y$  means X is the sister of Y, which of the following shows that P is the maternal uncle of Q?

1.  $Q - N + M \times P$       2.  $P + S \times N - Q$       3.  $P - M + N \times Q$       4.  $Q - S \% P$

126. In the following question, three statements numbered -I, II and III, and four conclusions are given. Select the correct answer from the options given.

**Statements:-**

- I. Some Newspapers are ACs.  
 II. Some ACs are Trees.  
 III. All Books are ACs.

**Conclusions:-**

- A. Some Books are Newspapers.
- B. All Books are Trees.
- C. All Trees are Books.
- D. Some Books are not Newspapers.

**Options:-**

- 1. Only A follows.
- 2. Only A or C follows.
- 3. Only either A or D follows.
- 4. Only B and C follows.

**DIRECTIONS for question 127 to 128:** A statement is given followed by several assumptions. An assumption is something assumed or taken for granted. Read the statement carefully and decide which of the assumptions are implicit in the statement.

- 127. Statement:** "I think that she has gone mad. Last night I saw her barking like a dog." – A tells B about Madhu.

**Assumptions:**

- I. Madhu is a friend of A.
- II. B Knows Madhu.
- III. Some people do not bark like dogs.

- 1. I and II are implicit.
- 2. II and III are implicit.
- 3. I and III are implicit.
- 4. All are implicit

- 128. Statement:** "The Prime Minister is expected to announce an expansion in his ministry shortly." – A newspaper report

**Assumptions:**

- I. The newspaper has quoted authentic sources.
- II. The newspaper has reliable sources for the news.
- III. The Prime Minister has the power to expand his cabinet.

- 1. I and II are implicit
- 2. II and III are implicit
- 3. I and III are implicit
- 4. All are implicit

- 129.** How many times in a day, do the hands of a clock coincide with each other?

- 1. 12
- 2. 24
- 3. 22
- 4. 44

**DIRECTIONS for question 130 to 134:** These questions are based on the data given below.

There are two circular tables in a room. Six Americans - A1, A2, A3, A4, A5, A6 are sitting at one table and six Germans - G1, G2, G3, G4, G5, G6 are sitting at the other table. A1 and A4 are sitting opposite to each other. A2 and A5 are also sitting opposite to each other. A3 sits to the right of A4. A2 is the only person who can translate English to German language; A3 is the only person who can translate German language to English, and none of them does the vice-versa, unless so stated. A5 and A6 sit adjacent to each other. Similarly, G1 sits opposite to G4; G6 sits opposite to G3 and G5 sits to the right of G6. G2 and G4 sit adjacent to G3. On the table, any person can talk to another person, only as stated below. The only conversations that took place are as given below:

A1 spoke to A2; A2 to G6; G6 to A3; G6 to G5; G5 to G4; G4 to G3; G3 to G2; G2 to G1; A3 to A4; A4 to A5; A6 to A1; G1 to G6; and A5 to A6.

The conversations are one-sided i.e., A1 spoke to A2 implies that A1 is the speaker and A2 is the listener and not vice-versa.

- 130.** If the person to the right of A1 wants to send a message to the person sitting to the left of G2, then the message has to pass through how many persons? (Excluding the first and the last)
1. 7                      2. 5                      3. 6                      4. None of the above
- 131.** If A3 wants to send a message to G1, then how many persons must the message pass through? (excluding the first and the last)
1. 6                      2. 4                      3. 10                      4. None of the above
- 132.** If the person sitting to the right of A2 wants to send a message to the person sitting two places to the left of A4, then what is the minimum number of people involved between them? (excluding the two people)
1. 6                      2. 10                      3. 4                      4. None of the above
- 133.** If every person is allowed to speak to the person who sits opposite to him directly, then what is the least number of persons involved in passing a message from A3 to G1? (excluding the two people)
1. 3                      2. 6                      3. 7                      4. None of the above
- 134.** If the order of conveying messages is reversed at both the tables i.e. "A1 speaks to A2 "now becomes "A2 speaks to A1", (and so on) and also A2 and A3 exchange their interpreting skills, then which of the following must be true?
1. A1 can send a message to G5 involving only 2 persons.
  2. The person sitting to the right of A6 can send a message to the person sitting to the left of G2, by involving only five persons.
  3. The person sitting to the right of A3, on the same table, can translate English to German language.
  4. The maximum number of persons involved in the longest message in this new arrangement is more than that in the previous arrangement.

**DIRECTIONS for question 135 and 137:** There are 3 females A, B and E and 4 males C, D, F, and G standing in a straight line. No two females are together. B is to right of C, F and D are not together as A is placed between them. G is not near B or E but E and F are together. D is not to the right of B.

- 135.** Who is in the extreme end?
1. G and B                      2. C and F                      3. B and D                      4. None of them
- 136.** Who is exactly in the middle?
1. A                      2. F                      3. E                      4. None of the above
- 137.** Look carefully at the sequence of letters and symbols to find the pattern. Select correct pattern.
- N<sub>2</sub>WF LT<sub>3</sub>G JQH<sub>4</sub> \_\_\_\_ FK<sub>6</sub>J
1. H<sub>5</sub>NI                      2. H<sub>5</sub>SI                      3. HR<sub>2</sub>I<sub>3</sub>                      4. H<sub>5</sub>NJ

**DIRECTIONS for question 138 and 141:** Answer the questions based on the details given in the paragraph.

There were 200 students who gave a competitive exam. The exam had three sections English, Maths and General Knowledge (GK). Ten students could not pass in any of the subjects. Number of students passed in English was 125, Maths was 95 and General Knowledge was 95. 55 students passed in English and Mathematics. 45 students passed in GK and Maths and 60 students passed in GK and English. 20 students passed in English and Maths but failed in GK.

**138.** How many students passed in GK and Maths, but failed in English?

1. 30                      2. 60                      3. 45                      4. 10

**139.** How many students passed in English and GK but failed in Maths?

1. 60                      2. 25                      3. 20                      4. 35

**140.** How many students passed only in Maths?

1. 30                      2. 20                      3. 25                      4. 35

**141.** How many passed in all three Subjects?

1. 25                      2. 35                      3. 15                      4. 20

**DIRECTIONS for question 142:** Answer the question based on the details given in the paragraph.

In a family of six, there are three men A, B and C and three women R, S and T. The six persons are Architect, Lawyer, CA, Professor, Doctor and Engineer by profession but not in the same order. There are two married couples and two unmarried persons. C is not R's husband. The Doctor is married to a Lawyer. R's grandfather is a Professor. B is neither A's son, nor he is an Architect or a Professor. The Lawyer is T's daughter-in-law. C is T's son and the Engineer's father. A is married to the CA.

**142.** Which among the following is the correct pair of married couples?

1. AS and CR              2. AC and SR              3. AT and CS              4. AT and RB

**143.** Five friends A, B, C, D and E have different jobs. They work with either Bank or Cinema or Pharma or Sales or Jewellery. Pick the right job in which they are employed if:

B is neither concerned with Bank nor with Sales. E has nothing to do with Cinema or Jewellery. C is not in Bank or Cinema. D has nothing to do in Sales or Pharma. Cinema has not given a chance to B or D nor E is a bank employee. C is not in Sales nor B is in Jewellery.

1. A- Cinema; B-Sales; C-Jewellery; D-Pharma; E-Bank  
2. A- Cinema; B-Sales; C-Pharma; D-Bank; E-Jewellery  
3. A- Cinema; B-Sales; C-Jewellery; D-Bank; E-Pharma  
4. A-Cinema; B-Pharma; C-Jewellery; D-Bank; E-Sales

**DIRECTIONS for question 144:** In the following question, a statement or two are followed by two conclusions:-

- 144. Statement:** Of all the television sets manufactured in India, the ‘Solar’ brand has the largest sale.
- Conclusions:**
- I. The volume of sales of all the brands of television sets manufactured in India is known.  
II. The production of no other television set in India is as large as that of ‘Solar’.
1. Conclusion I follows                                      2. Conclusion II follows  
3. Both I and II follow                                    4. Either I or II follows

**DIRECTIONS** *for question 145 to 148: Read the information carefully and answer the questions:*

Radhika, Neha, Rupa, Mahima, Sayali and Shobha joined six different renowned MBA institute – A, B, C, D, E and F and opted for six different specializations in Management – Finance, IT, Operations, HR, Marketing and General Management. Each of them has a different educational qualification out of BCA, B.Com, CA, BBM, B.Sc., and B.Tech.

The following information is available about them.

- I. Mahima joined institute B and did not take up Marketing or IT and is not a B.Tech.
- II. The person who joined institute E opted for HR and is not a CA or a B.Sc.
- III. The person, who is a BCA graduate, joined the institute D and took IT. Whereas, the person, who is B.Com graduate, took up General Management.
- IV. Shobha is a CA and has taken Finance.
- V. B.Tech graduate has taken Operations Management and didn't join institute A or C.
- VI. Radhika joined institute F, Rupa is a BCA graduate and Neha took up HR

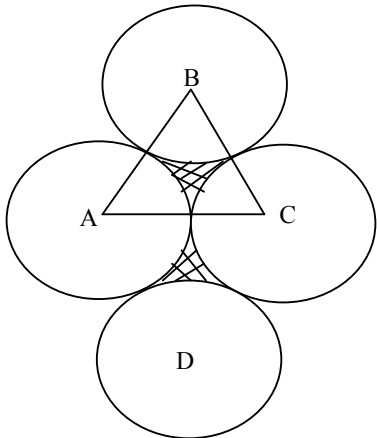
- 145.** What is the educational qualification of Mahima and what is the course she o
1. B.Sc. and Finance  
2. B.Com. and General Management  
3. BBM and HR  
4. None of the above
- 146.** Which Institute did the B.Tech Graduate join?
1. F  
2. D  
3. A  
4. None of these
- 147.** The education qualification of Sayali is
1. B.Sc.  
2. BCA  
3. BBM  
4. CA
- 148.** If Shobha joined the institute C, then the student who joined the institute A opted for
1. Finance  
2. Marketing  
3. General Marketing  
4. HR
- 149.** In a village there used to live three types of tribes SIM LIM & JIM. SIMs always tell  
JIM always Lie & LIMs tell the truth & Lie alternating. (They can tell truth & sequence). Three persons (of different tribes) from these villages gave following statements
- A. NICE says “RICE is of SIM tribe;  
B. MICE says “NICE is of LIM tribe; I am of SIM tribe”  
C. RICE say “MICE is of JIM tribe; I am of LIM tribe”  
Who among the following always speaks the truth?
1. NICE  
2. MICE  
3. RICE  
4. None of the above
- 150.** NICE belongs to which of the following tribe?
1. SIM  
2. JIM  
3. LIM  
4. None of the above

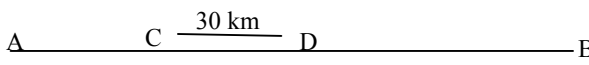
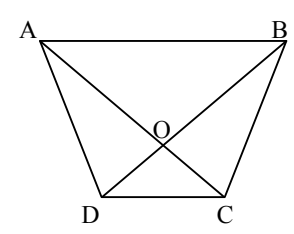
S. no	key	Explanations
1.	4	Minestrone is a type of thick Italian soup. Rest are made by joining words
2.	4	The word native means local , hence its opposite is exotic.
3.	2	This idiom means that it will shake the foundations of.
4.	1	The correct spellings are - DEMURRAGE.
5.	1	The correct word here will be lock.
6.	1	The correct word here is fewer as it is used for counting countable quantifiers.
7.	3	The correct idiom here would be temper frayed , which means losing temper.
8.	3	As per the tone of the passage the correct word is furthermore.
9.	2	The correct prepositions here would be that of option 2.
10.	1	The correct tense is in option 1.
11.	2	The correct wordings of a sentence is in option 2 - The aftermath of the catastrophic terrorist attacks on the World Trade Center in New York in 2001 has brought renewed pressure on immigrant communities in the U.S.
12.	2	The correct preposition here is by.
13.	1	Attenuate means to reduce , and hence it means the same as enervate which means to weaken.
14.	2	The word cajole means to flatter , hence its opposite is beguile
15.	1	Consanguinity means blood relations , and thus its synonym is affinity which means attraction.
16.	1	Cast off , means to remove , and hence this is the answer.
17.	3	The options are all idioms and the one to fit in the blank is option 3.
18.	3	A knock down price is an idiom which means selling yourself short, hence the answer is option 3.
19.	3	As per the sentence e, both the blanks are opposites and hence the answer is option 3.
20.	1	According to the tone of the sentence the answer is option 1.
21.	2	As per the sentence the answer is option 2
22.	1	The keyword here is aesthetic, and thus the answer is polemical.
23.	2	The correct spellings are - Pernicious.
24.	4	“Read not to contradict and confute, nor to believe and take for granted, nor to find talk and discourse, but to weigh and consider”
25.	3	To disapprove suits in the context because the author wants the reader to avoid being prejudiced
26.	4	“Some books may also be read by deputy, and extracts made of them by others; but that would be only in the less important arguments and the meaner sort of books”. Thus, option 4
27.	1	“Unless the firm is fortunate enough to possess a staff with considerable expertise, it may not be able to take this crucial first step without qualified outside guidance”. The author suggests this clearly.
28.	2	“If a good foundation is laid for export business the benefits derived should eventually outweigh the investment”. Thus, option 2 is the correct choice
29.	3	“Foreign customers may buy on the strength of distributing agent's reputation”. Thus, option 3
30.	1	“Another common difficulty for new exporter is the neglect of the export market once the domestic one booms”. Hence, option 2
31.	3	“Local safety regulations cannot be ignored by exporters”. Thus, option 3 makes sense
32.	2	“There are a number of reasons for this. There may be import restrictions in the target market”. Therefore, the answer is option 2.
33.	4	The correct answer here is option 4 , which is an idiom, which means- fascinated by.
34.	2	The correct tense would be option 2
35.	1	The correct word as per the text is back.
36.	1	This blank will be filled with an idiom, and thus the correct answer is option 1.
37.	4	All the options can fit , and thus the answer is option 4.
38.	1	It means brief
39.	1	The correct answer is - this desk is squarer than that one.
40.	3	This is an idiom which means that you be happy with what you have , even if its lesser than what you wanted.

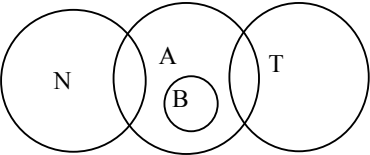
41.	4	<p>The equation of the line joining the points (5, 2) and (6, -15) is</p> $y - 2 = \frac{-15 - 2}{6 - 5}(x - 5)$ $\Rightarrow y - 2 = -17(x - 5)$ $\Rightarrow 17x + y - 87 = 0.$ <p>As no further information is given, so data is insufficient to solve the question.</p>
42.	2	<p>Here the divisors are 2, 3, 4 and 5 and the respective remainders are 1, 2, 3 and 4.          The L.C.M. of (2, 3, 4, 5) = 60.          The least number satisfying the given condition = L.C.M. of (2, 3, 4, 5) – the difference between the divisor and the respective remainder.  <math>= 60 - 1 = 59</math></p>
43.	4	<p>Total multiples of 7 between 1 and 1000 = <math>1000 / 7 = 142</math>.          Total multiples of 7 between 1 and 100 = <math>100 / 7 = 14</math>.          Hence total multiples of 7 between 100 and 1000 = <math>142 - 14 = 128</math>.</p>
44.	3	<p>Both the athletes have run for the same time. So the ratio of their distances will be the same as the ratio of their speeds. Hence the ratio of the distance covered by A and B, when they meet for the first time is 4: 5. Hence A has covered 400m and B has covered 500m. So they will meet at 400m from A's end.</p>
45.	3	<p>We have the function <math>Y = \sin x + \log x</math>          The domain of <math>\sin x</math> is set of all real numbers. The function <math>\log x</math> is defined when <math>x &gt; 0</math>.          Hence the domain of Y is <math>(0, \infty)</math>.</p>
46.	4	<p>If we multiply the terms given in the options one by one, we can check that none of them will give us <math>x^4 + 5x^2 + 36</math>. Hence answer is option 4.</p>
47.	2	<p>Let the present average age of committee is x years. So the total age is 4x years. Let the age of the person replaced is y years and that of the new member is z years. Acc. to the question</p> $\frac{4x - y + z}{4} = (x - 6) \Rightarrow 4x - y + z = 4x - 24$ $\Rightarrow y - z = 24 \text{ years.}$
48.	1	<p>Let <math>P(A)</math> = Probability of getting construction contract = <math>\frac{3}{4}</math>  <math>P(B)</math> = Probability of getting electrical contract = <math>1 - \frac{7}{9} = \frac{2}{9}</math>.  <math>P(A \cup B)</math> = Probability of getting at least one contract = <math>\frac{5}{6}</math>          Now <math>P(A \cup B) = P(A) + P(B) - P(A \cap B)</math>  <math>\Rightarrow \frac{5}{6} = \frac{3}{4} + \frac{2}{9} - P(A \cap B)</math>  <math>\Rightarrow P(A \cap B) = \frac{5}{36}</math>.</p>
49.	3	<p>When 21 books of Literature are arranged in a row, there will create 22 places. Now we have to place 19 books of Nature at these 22 places which can be done in <math>{}^{22}C_{19} = 1540</math> ways.</p>
50.	2	<p>The volume of the water displaced is equal to the volume of the sphere.</p> $\frac{4}{3} \times \pi \times (4)^3 = \frac{256\pi}{3} \text{ cubic units..}$ <p>Now the volume of the sphere = <math>\frac{4}{3} \times \pi \times (4)^3 = \frac{256\pi}{3}</math> cubic units..          Let the water surface be raised by 'h' meters.</p> $\pi(8)^2 \times h = \frac{256\pi}{3} \Rightarrow h = \frac{4}{3} \text{ units.}$ <p>Hence</p>
51.	2	<p>The volume of the cylinder = <math>\pi \times (5)^2 \times 12 = 300\pi \text{ cm}^3</math>.  <math>\frac{4\pi}{3} \times (0.1)^3 = \frac{0.004\pi}{3} \text{ cm}^3</math>.          The volume of one solid ball = <math>\frac{4\pi}{3} \times (0.1)^3 = \frac{0.004\pi}{3} \text{ cm}^3</math>.          Let there are 'n' balls. So we have</p>

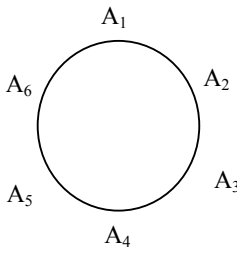
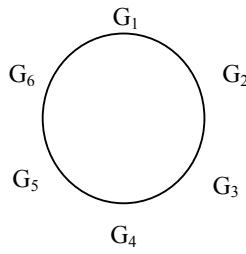
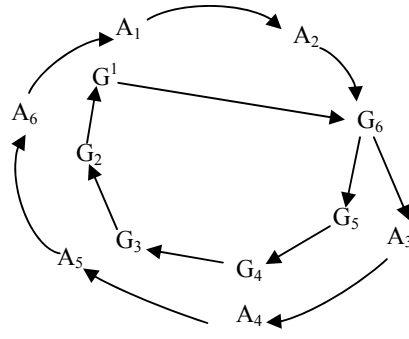
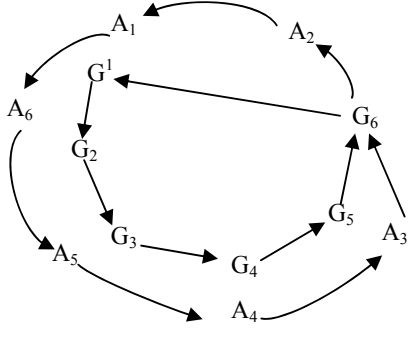


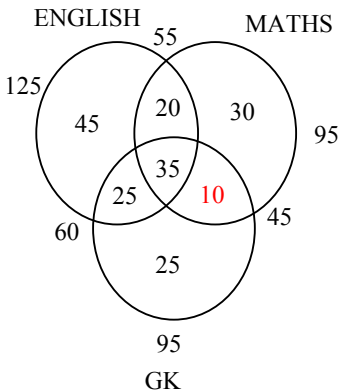
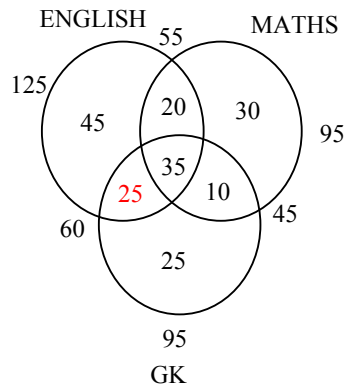
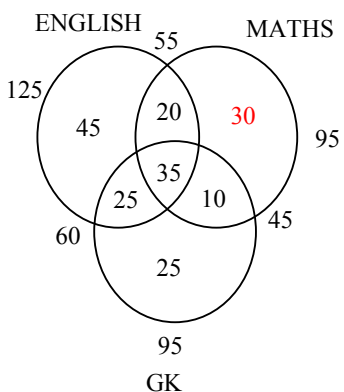
		$n \times \frac{0.004\pi}{3} = 300\pi$ $\Rightarrow n = \frac{900}{0.004} = 225000 = 2.25 \text{ lakh.}$
52.	4	$\log_{\frac{1}{4}} 256 = \frac{1}{\log_{256} \left(\frac{1}{4}\right)} = \frac{1}{\log_{4^4} 4^{-1}} = \frac{-1}{4 \log_4 4} = \frac{-1}{4}.$ <p>We have</p>
53.	1	<p>Let the total sales = Rs x</p> $\text{Total commission} = \frac{6}{100} \times 15000 + (x - 15000) \times \frac{4}{100} = 900 + 0.04x - 600 = 300 + 0.04x.$ <p>As he submitted Rs 30000 after deducting his commission, so we have</p> $x - (300 + 0.04x) = 30000$ $\Rightarrow 0.96x - 300 = 30000 \Rightarrow 0.96x = 30300$ $x = \frac{30300}{0.96} = \text{Rs } 31562.5$ <p><math>\Rightarrow</math></p>
54.	1	<p>We have 60% of <math>(x - y) = 40\%</math> of <math>(x + y)</math></p> $\Rightarrow \frac{3(x - y)}{5} = \frac{2(x + y)}{5}$ $\Rightarrow 3(x - y) = 2(x + y)$ $\Rightarrow 3x - 3y = 2x + 2y$ $\Rightarrow x = 5y$ $\Rightarrow x : y = 5 : 1$ <p>Hence y is 20% of x.</p>
55.	1	<p>The investment is in ratio 4: 5 and period of investment is 9: 8.</p> <p>Hence the profit will be in the ratio <math>4 \times 9 : 5 \times 8 = 9 : 10</math>.</p>
56.	2	<p>As minute hand and hour hand have changed, so hour hand is actually now minute hand. So it will show 6'o'clock again when it will first cover a gap of 1800 and then create further gap of 1800 i.e. total 3600. The relative speed is 5.50/ min. So required time = <math>360 \times \frac{11}{2}</math> min past 6'o clock i.e. at <math>5 \frac{5}{11}</math> minutes past 7'o clock.</p>
57.	1	
58.	1	
59.	1	<p>The given data is in degrees. So 25% of 3600 = 900. Now only Discovery channel has its sector more than 900. So there is only one such channel.</p>
60.	3	<p>National Geographic channels constitutes 350 of the total circle.</p> $\frac{70000}{35} \times 360 = 720000.$ <p>Hence total viewership per day =</p> <p>The difference of people who watched Discovery and History</p> $\frac{135}{360} \times 720000 = 270000.$ <p>=</p>
61.	1	<p>TLC is 550 of the total viewership.</p> $\text{Hence total viewership} = \frac{55000}{55} \times 360 = 360000.$
62.	2	<p>Let total viewership for the whole month is 360. Then the viewership of Discovery kids for the whole month = 75 and of TLC = 55.</p> <p>The viewership of Discovery Kids for the second half = 50.</p> <p>Hence the required ratio is 50: 55 = 10: 11.</p>
63.	2	<p>As Discovery Kids is under quoted by 25%, so Discovery kids will be increased by 250.</p> $\text{Hence the viewership of Discovery} = \frac{160}{385} \times 100 = 41.55\%.$
64.	1	<p>The numbers which satisfy the given property are 106, 112, 118, .....994 which forms an</p>

		A.P. with first term 106 and common difference 6. Let the total terms are 'n'. Hence $994 = 106 + (n - 1) \times 6$ $\Rightarrow 888 = (n - 1) \times 6 \Rightarrow n - 1 = 148 \Rightarrow n = 149$ .
65.	3	We will do it by options. Option in which on subtracting 241 becomes a perfect square should be the answer. Only 14641 satisfy it as $14641 - 241 = 14400$ is a perfect square.
66.	3	The total number of ways of selecting 5 cards out of 11 is ${}^{11}C_5 = \frac{11!}{5!6!} = 462$ . Now for favourable case, the third number should be 3. The first two numbers should be 1 and 2. The last two numbers can be selected out of the remaining 8 numbers in ${}^8C_2 = 28$ ways. $\frac{28}{462} = \frac{14}{231}$ Hence the probability = $\frac{14}{231}$ .
67.	4	 <p>Here <math>\triangle ABC</math> is an equilateral triangle with side <math>14\sqrt{3}</math> units. So the area of <math>\triangle ABC = \frac{\sqrt{3}}{4} \times (14\sqrt{3})^2 = 147\sqrt{3}</math>.</p> <p>The area of the three minor sectors inside the <math>\triangle ABC = 3 \times \pi \times (7\sqrt{3})^2 \times \frac{60}{360} = \frac{147\pi}{2}</math>.</p> <p>Hence the area of the shaded region inside the <math>\triangle ABC = 147\sqrt{3} - \frac{147\pi}{2} = 147\left(\sqrt{3} - \frac{\pi}{2}\right)</math></p> <p>Hence the total area of the shaded region = <math>2 \times 147\left(\sqrt{3} - \frac{\pi}{2}\right) = 294\left(\sqrt{3} - \frac{\pi}{2}\right)</math></p>
68.	3	Actual ratio of distribution among A, B and C is $\frac{1}{3} : \frac{1}{4} : \frac{1}{6}$ or 4: 3: 2. So the actual share of A was Rs 80, of B was Rs 60 and of C was Rs 40. When the money was divided in the ratio 3: 4: 6 among A, B and C then they got Rs 41.52, Rs 55.36 and 83.04 respectively. Hence only share of C has increased.
69.	3	Let the age of mother is 'x' years and of daughter is 'y' years. So we have $x + y = 42$ .....(i) After 3 years, $x + 3 = 3(y + 3)$ $\Rightarrow x + 3 = 3y + 9$ $\Rightarrow x - 3y = 6$ .....(ii) Subtracting (ii) from (i), we get, $4y = 36 \Rightarrow y = 9$ years and $x = 33$ years. Hence mother's age after 3 years = 36 years.
70.	2	The difference between the terms is 3, 6, 9, 12, 15, 18 and 21 respectively. Hence the missing term is $47 + 18 = 65$ .
71.	1	The difference between the numbers is 17, 15, 13, 11, 9 and 7. Hence 47 is incorrect. It should be 46.
72.	3	Probability of hitting the target = $1 - (\text{probability of missing the target})$ $= 1 - (0.9 \times 0.8 \times 0.65 \times 0.55) = 1 - 0.2574 = 0.7426$ .

73.	2	<p>We have <math>\log(10368)6 = 6 \times \log 10368 = 6 \times \log(27 \times 34)</math>  <math>= 6 \times \{\log 27 + \log 34\} = 6 \times (7 \log 2 + 4 \log 3)</math>  <math>= 6 \times (7 \times 0.30103 + 4 \times 0.4771) = 6 \times (2.10721 + 1.9084) = 24.09366</math>  Hence the number of digits is <math>24 + 1 = 25</math>.</p>
74.	4	<p>Angle between minute hand and hour hand at 8'o clock is <math>30 \times 8 = 2400</math>. It will decrease 5.5 0 per minute. So in 24 minutes, it will decrease by <math>5.5 \times 24 = 1320</math>. So the angle between minute hand and hour hand at 8: 24 p.m. is <math>2400 - 1320 = 1080</math>.</p>
75.	1	<p style="text-align: center;">  </p> <p>Let A be the starting point and B is the destination. C and D are places where the problems occurred.  Let the speed of the train is 'x' km/hr.  Now <math>\frac{30}{x} - \frac{30}{x} = 1</math>  <math>\frac{2}{x} = 1</math>  <math>\Rightarrow x = 30</math> km/hr.</p>
76.	2	<p>Let the cost of manufacturer is Rs 'x'. Then we have  <math>x \times 1.18 \times 1.2 \times 1.25 = 30.09</math>  <math>\Rightarrow x \times 1.77 = 30.09</math>  <math>\Rightarrow x = 30.09 / 1.77 = 17</math>.</p>
77.	2	<p>In the first 10 years the interest will be 50% of principle i.e. Rs 500. Hence the A = 1000 + 500 = Rs 1500. Now this is the new principle. To make it Rs 2000, Rs 500 are more needed.  Now <math>500 = \frac{1500 \times 5 \times t}{100}</math>  <math>\Rightarrow t = \frac{500 \times 100}{1500 \times 5} = \frac{20}{3}</math>.  Hence total time required = <math>10 + \frac{20}{3} = \frac{50}{3}</math> years.</p>
78.	3	<p>Since tank B is two times the volume of tank A so pipe R will take 20 hrs to empty Tank A. When all the three pipes are connected to tank R then in one hour, water filled =  <math>\frac{1}{10} + \frac{1}{12} - \frac{1}{20} = \frac{6+5-3}{60} = \frac{8}{60} = \frac{2}{15}</math>  <math>\frac{15}{2}</math>  Hence it will take <math>\frac{15}{2}</math> hours or 7 hours 30 minutes to fill the tank.</p>
79.	2	<p style="text-align: center;">  </p> <p>The triangles AOB and COD are similar.  Hence the ratio of areas is equal to the ratio of square of the sides. Since AB is twice of CD, so ratio of areas of <math>\triangle AOB</math> and <math>\triangle COD</math> is 4: 1.</p>
80.	2	<p>Here MP = Rs 65 and SP = Rs 56.16.  <math>\frac{65 - 56.16}{65} \times 100 = 13.6\%</math>  Hence flat discount = 13.6%  Now the first discount is 10%. Let us try the question using options.  Let the second discount is 4%.  So the flat discount = <math>10 + 4 - \frac{40}{100} = 14 - 0.4 = 13.6\%</math> which is same as the actual value.  Hence the second discount is 4%.</p>
81	2	

82	3	
83	3	
84	3	
85	1	
86	3	
87	1	
88	1	
89	1	
90	2	
91	1	
92	2	
93	1	
94	2	
95	2	
96	3	
97	1	
98	2	
99	3	
100	1	
101	2	
102	2	
103	4	
104	2	
105	3	
106	1	
107	3	
108	1	
109	2	
110	3	
111	3	
112	2	
113	4	
114	4	
115	3	
116	2	
117	4	
118	4	
119	3	
120	3	
121	3	The vertex is the highest point of a pyramid; the summit is the highest point of a mountain.
122	1	Piety is found in a pilgrim. Likewise curiosity is found in an explorer
123	4	This is the essence of the passage
124	3	“Value based education is the need of the day to eliminate darkness of cruelty”. Thus, option 3
125	3	Since P is the brother of the mother of N & Q, hence P is the maternal uncle of Q.
126	3	 <p>Hence either A or D follows as A &amp; D form a complimentary pair.</p>
127	2	Both 2 <sup>nd</sup> and 3 <sup>rd</sup> are implicit in the given context as it is nowhere mentioned that Madhu is B's friend
128	2	Both 2 <sup>nd</sup> and 3 <sup>rd</sup> are implicit in the given context as we are not sure of the authenticity of the sources

129	3	As one coincidence occurs after the other at a gap of $65\frac{5}{11}$ minutes ( $60 \times \frac{12}{11}$ ) after the previous coincidence so in 12 hour period there occurs only 11 coincidences ( as a coincidence is missed between 11 & 1). So, in a period of 24 hours hands of the clock will coincide 22 times.
130	2	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>Diagram 1</p> </div> <div style="text-align: center;">  <p>Diagram 2</p> </div> </div> <div style="text-align: center; margin-top: 20px;">  <p>Diagram 3</p> </div> <p>We can observe from diagram 1 that person to the right of A1 is A6 and from diagram 2 that person sitting to the left of G2 is G3. Now, from diagram 3, A6 will pass message to A1, A1 to A2, A2 to G6, G6 to G5, G5 to G4 and G4 to G3. Thus, the message will pass through A1-A2-G6-G5-G4 i.e., 5 persons (except the first and last persons).</p>
131	3	From diagram 3, we can observe that route for sending the message will be A3 - A4 - A5 - A6 - A1 - A2 - G6 - G5 - G4 - G3 - G2 - G1. Thus, the message will pass through 10 persons (except the first and last persons).
132	4	We can observe from diagram 1 that person to the right of A2 is A1 and from diagram 2 that person sitting two places to the left of A4 is A6. Now, according to diagram 3, the message will pass through A1 - A2 - G6 - A3 - A4 - A5 - A6 i.e., 5 persons (excluding the 2 persons).
133	1	Since, we need to count the least number of persons, thus A3 will pass the message directly to A6, then the message will follow the normal route upto G6. Then again to get the least persons, message from G6 will pass directly to G3 and then the message will be transmitted through the normal route upto G1. Thus, the correct route will be A3 - A6 - A1 - A2 - G6 - G3 - G2 - G1 i.e., the least number of persons involved are 6 (excluding the 2 persons).
134	2	<div style="text-align: center;">  <p>Diagram 4</p> </div> <p>We can observe from diagram 1 that person to the right of A6 is A5 and from diagram 2 that person sitting to the left of G2 is G3. Now, according to diagram 4, the message will pass through A5 - A4 - A3 - G6 - G1 - G2 - G3 i.e., 5 persons (excluding the 2 persons). Thus, option 2 is correct.</p>
135	4	The correct order is E F A D G C B. It can be seen that B and E are at the extreme end.

136	4	D is placed in the middle, hence 4 <sup>th</sup> option is the answer.
137	1	The logic followed is that the first alphabet moves two places down in each term, the second moves three places down in each term and the third moves one place up. The numbers in subscript increase by one. Hence answer is H <sub>5</sub> NI.
138	4	 <p>It is clear from the diagram that the number of students passed in GK and Maths, but failed in English are 10.</p>
139	2	 <p>It is clear from the diagram that the number of students passed in GK and English, but failed in Maths are 25.</p>
140	1	 <p>It is clear from the diagram that the number of students passed only in Maths are 30.</p>

141	2	<div><div><div>ENGLISH</div><div>MATHS</div><div>GK</div></div><div><div><div>125</div><div>45</div><div>25</div><div>60</div></div><div><div>55</div><div>20</div><div>30</div><div>95</div></div><div><div>25</div><div>10</div><div>45</div><div>95</div></div><div>35</div></div></div> <div>It is clear from the diagram that the number of students passed in all three subjects is 35.</div>																																				
142	3	<div>A(Grandfather &amp; Professor) ⇔ T(Grandmother &amp; CA)</div> <div>C(Docter) ⇔ S(Lawyer)</div> <div>B(Engineer) R(Architect)</div> <div>Hence AT and CS are pair of married couples.</div>																																				
143	4	<table><tr><td></td><td>BANK</td><td>CINEMA</td><td>PHARMA</td><td>SALES</td><td>JEWELLERY</td></tr><tr><td>A</td><td>×</td><td>✓</td><td>×</td><td>×</td><td>×</td></tr><tr><td>B</td><td>×</td><td>×</td><td>✓</td><td>×</td><td>×</td></tr><tr><td>C</td><td>×</td><td>×</td><td>×</td><td>×</td><td>✓</td></tr><tr><td>D</td><td>✓</td><td>×</td><td>×</td><td>×</td><td>×</td></tr><tr><td>E</td><td>×</td><td>×</td><td>×</td><td>✓</td><td>×</td></tr></table> <div>Hence, option 4.</div>		BANK	CINEMA	PHARMA	SALES	JEWELLERY	A	×	✓	×	×	×	B	×	×	✓	×	×	C	×	×	×	×	✓	D	✓	×	×	×	×	E	×	×	×	✓	×
	BANK	CINEMA	PHARMA	SALES	JEWELLERY																																	
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B	×	×	✓	×	×																																	
C	×	×	×	×	✓																																	
D	✓	×	×	×	×																																	
E	×	×	×	✓	×																																	
144	1	There is no mention about the production being the highest. Thus, only option 1 is correct																																				
145	2	<table><tr><td>Name</td><td>Institute</td><td>Specialization</td><td>Educational Qualification</td></tr><tr><td>Radhika</td><td>F</td><td>Operations</td><td>BTech.</td></tr><tr><td>Neha</td><td>E</td><td>HR</td><td>BBM</td></tr><tr><td>Rupa</td><td>D</td><td>IT</td><td>BCA</td></tr><tr><td>Mahima</td><td>B</td><td>General Mgt.</td><td>BCom.</td></tr><tr><td>Sayali</td><td>A/C</td><td>Marketing</td><td>BSc.</td></tr><tr><td>Shobha</td><td>C/A</td><td>Finance</td><td>CA</td></tr></table> <div>Hence Mahima is BCom and doing General Mgt.</div>	Name	Institute	Specialization	Educational Qualification	Radhika	F	Operations	BTech.	Neha	E	HR	BBM	Rupa	D	IT	BCA	Mahima	B	General Mgt.	BCom.	Sayali	A/C	Marketing	BSc.	Shobha	C/A	Finance	CA								
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146	1	Hence Radhika is BTech and she joined institute F.																																				
147	1	Hence Sayali is a BSc.																																				
148	2	If Shobha joined Institute C then Sayali who joined A opted for Marketing.																																				
149	2	<div>Statements A &amp; C have a common second remark that “I am of LIM tribe”. If this remark is taken to be true then the person is an alternator ( LIM) and if false then he is a liar. This means in either case the person cannot be a truth teller. So, neither of NICE &amp; RICE can be a truth teller. Hence MICE is a truth teller and belongs to tribe SIM.</div> <div>As per the above discussion we get the following table:</div> <table><tr><td>Name</td><td>Statement I</td><td>Statement II</td><td>Tribe</td></tr><tr><td>NICE</td><td>×</td><td>✓</td><td>LIM</td></tr><tr><td>MICE</td><td>✓</td><td>✓</td><td>SIM</td></tr><tr><td>RICE</td><td>×</td><td>×</td><td>JIM</td></tr></table>	Name	Statement I	Statement II	Tribe	NICE	×	✓	LIM	MICE	✓	✓	SIM	RICE	×	×	JIM																				
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RICE	×	×	JIM																																			
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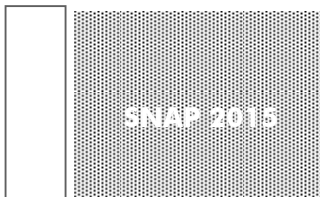
**SECTION – I**









**GENERAL AWARENESS**

**Number of questions: 40**

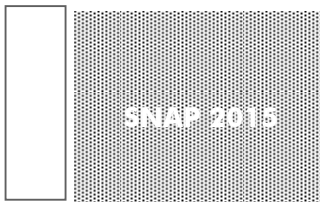
1. The full form of CSIRO is
  1. Comprehensive Scientific and Industrial Research Organization
  2. Cross-cultural Scientific and Industrial Research Organization
  3. Commonwealth Scientific and Industrial Research Organization
  4. Council of Scientific and Industrial Research Organization
2. The full form of UNRISD is
  1. United Nations Research Institute for Soviet Development
  2. United Nations Research Institute for Scientific Development
  3. United Nations Research Institute for Socio-economic Development
  4. United Nations Research Institute for Social Development
3. *Bhaona* is a presentation of the *Ankia Naat* of Assam. In *Bhaona* the cultural glimpses of \_\_\_\_\_ is/ are reflected.
  1. Assam and Orissa
  2. Bengal
  3. Mathura and Brindavan
  4. All of the above
4. Under which Act does the Archaeological Survey of India (ASI) protect monuments, sites and remains of national importance ?
  1. AMASR Act, 1958
  2. AMASR Act, 1968
  3. AMASR Act, 1978
  4. AMASR Act, 1948
5. In 2015 the President of India approved conferment of Padma Awards to all of the following but for \_\_\_\_\_
  1. Kharag Singh Valdiya
  2. Mohammad Yusuf Khan
  3. Lakshmi Gopala Naidu
  4. Saichiro Misumi
6. In Grammy Awards 2015 the best folk album was won by \_\_\_\_\_
  1. Pharrell Williams - "Happy"
  2. Old Crow Medicine Show – Remedy
  3. Rosanne Cash - The River & the Thread
  4. None of the above
7. Scientists discovered a new species in the human family tree which is a small creature with a tiny brain. The new species has been named as \_\_\_\_\_
  1. Homo Naledi
  2. Dwarf Sapein
  3. Dwarf Homo Sapein
  4. None of the above
8. The ministry of external affairs has recently decided to change the nomenclature of Indian Based Domestic Assistance (IBDA) to \_\_\_\_\_
  1. Government Serving Based Domestic Assistance (GSBDA)
  2. Swadesh Swatcha Domestic Assistance (SSDA)
  3. Service Staff (SS)
  4. Bharath Based Service Assistance (BBSA)





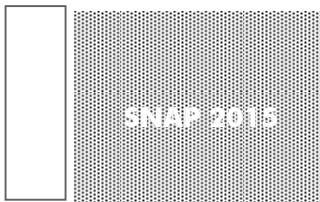
9. The foreign exchange reserve of India consists of \_\_\_\_\_
1. The foreign currency assets held by RBI and the gold holding of RBI
  2. The gold holding of RBI and special drawing rights
  3. The gold holding of RBI, the foreign currency assets held by RBI and special drawing rights
  4. Only the foreign currency assets held by RBI
10. \_\_\_\_\_ is a charge for converting bullion into coins where free coinage is permitted. This charge is equal to the cost of bullion to coins transformation.
1. Bull-Coin
  2. Brassage
  3. Bit Coin
  4. Coin Levy
11. Microsoft introduced several new products for education customers, this includes a note-taking app called \_\_\_\_\_
1. Office Note classroom
  2. Micro Note class Notebook
  3. Soft note for classroom
  4. One Note class Notebook
12. The National Merit Scholarship Scheme, which provided financial assistance to meritorious students from Class XI to Post- Graduation level in Government Schools/Colleges/Universities has been discontinued from the year \_\_\_\_\_
1. 2009
  2. 2008
  3. 2007
  4. None of the above
13. The Symbol used for reusable microwaveable plastic ware is \_\_\_\_\_
1. 
  2. 
  3. 
  4. 
14.    
15. Super Blood Moon, which is a rare astronomical phenomenon hasn't happened since \_\_\_\_\_, and won't happen again until \_\_\_\_\_
1. 1982, 2033
  2. 1980, 2035
  3. 1978, 2032
  4. 1975, 2031
16. The galaxy \_\_\_\_\_ was initially discovered with NASA's Spitzer Space Telescope in infrared light and is believed to be at least 9 billion years old.
1. ANDROMEDA
  2. COSMOS REDSHIFT
  3. SAGE0536AGN
  4. SUNFLOWER
17. In the year 2014 Facebook bought Whatsapp for \_\_\_\_\_ US Dollars.
1. 17 billion
  2. 18 billion
  3. 19 billion
  4. 20 billion

18. Shri Narendra Modi was sworn in as the Prime Minister of India on \_\_\_\_\_ at the Rashtrapati Bhavan in New Delhi.
1. 25<sup>th</sup> May 2014      2. 19<sup>th</sup> May 2014      3. 26<sup>th</sup> May 2014      5. 27<sup>th</sup> May 2014
19. Where is the doldrums belt located ?
1. Near the Equator      2. Near the Poles  
3. Near the Tropic of Cancer      4. Near the Tropic of Capricorn
20. The air quality in Singapore deteriorated to a hazardous level in September 2015, forcing the city-state to shut its schools for the first time in 12 years. This was due to .
1. Haze created mainly due to companies in Malaysia  
2. Haze created mainly due to companies in Indonesia  
3. Haze created mainly due to companies in Philippines  
4. Haze created mainly due to companies in Vietnam
21. In 1347 during the reign of Muhammed Tuglak an Afghan officer named \_\_\_\_\_ setup an independent kingdom called Bahmani Kingdom.
1. Mahmud Gawan Bahmani      2. Mohammad Yusuf Bahmani  
3. Hasan Gangu Bahmani      4. Khwaja Tuglak Bahmani
22. The task of consolidating Mughal Kingdom was left to Akbar who was only \_\_\_\_\_ years old at the time of his accession of the throne.
1. Eleven Years      2. Twelve Years      3. Thirteen Years      4. Fourteen Years
23. Smoking in public places was prohibited nationwide from \_\_\_\_\_
1. 15<sup>th</sup> August 2008      2. 02<sup>nd</sup> October 2008      3. 15<sup>th</sup> August 2009      4. 02<sup>nd</sup> October 2009
24. A constitutional right can be \_\_\_\_\_ recognized and established by a sovereign State or union of States.
1. a prerogative or a duty or a restraint of power  
2. a prerogative or a duty, a power or a restraint of power  
3. a prerogative or a duty, a power but not a restraint of power  
4. a power but not a prerogative or a duty
25. In Nepal the festival of lights i.e. Diwali is celebrated by some Buddhists as \_\_\_\_\_
1. Tihar      2. Swanti  
3. Both options a and b      4. Neither of the options above
26. The term "Vrajapati" used in Indian Mythology denoted \_\_\_\_\_
1. The Head of the Village      2. The Head of the Family  
3. The Head of a Society      4. The Head of Merchants



27. One of India's most distinguished constitutional lawyers who had received brickbats for arguing in favor of Dow Chemicals in the Bhopal gas disaster case is \_\_\_\_\_
1. Ram Jethmalai      2. Fali Nariman      3. Mukul Rohatgi      4. Pramila Nesargi
28. The Nobel Peace Prize winner who gave up freedom and a life with her family in Britain, to protest against the military rule at another country, who is also the Chair of the National League for democracy is \_\_\_\_\_
1. Angela Merkel      2. Christine Lagarde      3. Brito Polman '      4. Aung San Suu Kyi
29. In September 2015 it was revealed that \_\_\_\_\_ is the country which was exporting drone components worth hundreds of millions to countries that include Saudi Arabia and South Korea, to regain lost ground in a global arms race.
1. France      2. United Kingdom      3. Japan      4. United States of America
30. In the Indian general assembly elections 2014 the BJP-led NDA won \_\_\_\_\_ seats out of \_\_\_\_\_ Lok Sabha seats that were announced
1. 335,546      2. 334, 545      3. 336, 543      4. 332,544
31. The BS EN 16001 solutions from BSI is applicable for \_\_\_\_\_
1. Energy Management Systems      2. Environment Management Systems  
3. Energy Process Systems      4. Environment Standard Systems
32. The WEEE (Waste from Electrical and Electronic Equipment) is a directive that controls \_\_\_\_\_
1. how electric and electronic equipment is handled and recycled  
2. how electric and electronic equipment is manufactured and handled  
3. how electric and electronic equipment is recycled  
4. how electric and electronic equipment is manufactured, handled and recycled
33. The Sensex and Nifty are both indices. The base years for the BSE Sensex and Nifty are \_\_\_\_\_ and \_\_\_\_\_ respectively.
1. 1980-81 and 1990      2. 1990-91 and 2000  
3. 1978-79 and 1995      4. 2000-01 and 2004
34. The artist who painted Irises, Sunflowers, Red Poppies, Pink Roses was \_\_\_\_\_
1. Vincent van Gogh      2. Sandro Botticelli  
3. Leonardo da Vinci      4. Michelangelo
35. Which Indian satellite was launched that has a fantastic timing and records 1000<sup>th</sup> of a second ?
1. GSAT-16      2. IRNSS-1D      3. GSAT-6      4. Astrosat
36. W3C stands for \_\_\_\_\_
1. Triple Web Consortium      2. Triple Web Consolidation Council  
3. World Wide Web Consortium      4. World Wide Web Company

37. The country/countries that has/have resorted to Quantitative easing in the last decade is/are
1. United States of America
  2. United Kingdom
  3. Japan
  4. All of the above
38. Who is the Indian badminton player who after spending an year after his shoulder injury earned a final appearance at the Korean Open in 2015 ?
1. Chetan Anand
  2. Ajay Jayaram
  3. Parupalli Kashyap
  4. Sameer Verma
39. *Tamaasha*, the traditional folk theatre form of Maharashtra has evolved from the folk forms of
1. Gondhal, Jagran and Kirtan
  2. Only Kirtan
  3. Only Gondhal, Jagran
  4. Only Gondhal
40. The last series of wall painting in India are from near Hindupur belonging to 16<sup>th</sup> century A.D.
1. Lepakshi temple
  2. Shiva temple
  3. Sri Venkateswara Swami Temple
  4. Ganesh Temple



**SECTION – II**

**ANALYTICAL AND LOGICAL REASONING**

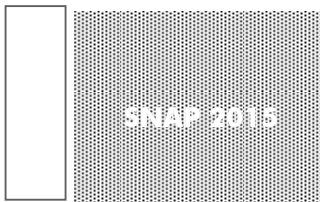
**Number of questions: 30**

41. A bungalow has one of its room located on the first floor and there are three identical 100 watt electrical bulbs fixed in the room. Each bulb is connected to a specific switch located at the basement. There are only three switches in the basement. All the bulbs are switched off at present and you are also at the basement area. The first floor cannot be seen from the basement area. If you are allowed to use your common prudence, what is the minimum number of times that you will have to go from basement to first floor to identify which switch goes to which bulb?
1. 03 times                      2. 20 times                      3. 01 time                      4. 06 times
42. Shyam is running a start-up. His initial investments are high and he is trying hard to manage and increase his cash flow. The sundry expenses that his firm incurs is negligible. He found from his accountant that the amount of pre-paid expenses in the balance sheet, which were booked from the previous year to the current year was increased. Shyam also ensured that his cash funded by the venture capitalists did not reduce when compared to the previous year. The interest that he gets from his fixed deposits increases, which is in tune with his sundry expenses. The final effect on cash for this year would be \_\_\_\_\_.
1. Cash flow marginally increases                      2. Cash flow exponentially increases  
3. Cash flow remains the same                      4. None of the above
43. A producer of a drama theatre is creating his weekend schedule. The producer has six plays to choose from: "Made in India", "Laugh for a while", "The Life is your choice", "MBA – Maha Budhiman Aadmi", "Placements -my goal", "MBA Go Getters". The producer sets a schedule based upon the following criteria.
- I. "Made in India" must be shown before "The Life is your choice" and "Laugh for a while"  
II. "Laugh for a while" must be shown before "MBA - Maha Budhiman Aadmi"  
III. "Placements - my goal" must be shown after "The Life is your choice" and "MBA Go Getters"
- Which of the following weekend schedules are consistent with the producer's criteria ?
1. Made in India, Laugh for a while, The Life is your choice, MBA - Maha Budhiman Aadmi, Placements - my goal and MBA Go Getters.  
2. MBA Go Getters, Made in India, Laugh for a while, The Life is your choice, Placements - my goal and MBA - Maha Budhiman Aadmi.  
3. Made in India, MBA Go Getters, Placements - my goal, Laugh for a while, MBA – Maha Budhiman Aadmi and The Life is your choice.  
4. Made in India, MBA Go Getters, MBA - Maha Budhiman Aadmi, The Life is your choice, Placements - my goal and Laugh for a while

44. Mr. Peter gave his eldest son David a bag with 1000 gold coins. David took 230 gold coins from the bag and gave the rest to his younger brothers John, Joe and Jonathan, and advised them to distribute the balance left in the bag amongst themselves in proportion to their age which together amounted to 17.5 years. After a lot of deliberation and discussion John, Joe and Jonathan came to a conclusion to distribute the gold coins. Their methodology was as follows: As often John took 4 gold coins, Joe took 3. As often John took 6 gold coins Jonathan took 7.

What was the age of John, Joe and Jonathan ?

1. 6 years, 4.5 years and 7 years respectively
  2. 5 years, 5.5 years and 7 years respectively
  3. 6 years, 5 years and 6.5 years respectively
  4. 5 years, 6.5 years and 6 years respectively
45. Mohan has an antique clock which strikes and makes loud gong sound every hour. It strikes the exact number of times indicating the time of the day or night. His clock takes seven seconds to strike Seven O' clock, how many seconds will his clock take to strike Eleven O'clock?
1. 11.22222227 seconds
  2. 11 seconds
  3. 11.66666667 seconds .
  4. None of the above
46. Find the missing number : 2, 6, 20, 42, 110 \_\_\_\_\_
1. 126
  2. 156
  3. 176
  4. 196
47. Fifteen years back, Ms. Kalpana had three sons Ramesh, Suresh and Rajesh. The sum of the age of Ramesh, Suresh and Rajesh was equal to half of the age of their mother. It was during the next five years when Mahesh was born. Then the age of Ms. Kalpana was equal to the sum of the ages of all her children. Time went on and years passed and Dinesh was born and age of Ramesh equaled the sum of the ages of Rajesh and Mahesh. Now, it so happened that the sum of the ages of Ramesh, Suresh, Rajesh, Mahesh and Dinesh was double the age of their mother and was also equal to the sum of the ages of Suresh and Ramesh. Also Ramesh's age was equal to sum of the ages of Mahesh and Dinesh. What is the age of Ms. Kalpana?
1. 39 years
  2. 42 years
  3. 41 years
  4. None of the above
48. Find the missing number: - 1, 0, 0, \_\_\_\_, 8
1. 1
  2. 2
  3. 3
  4. 4
49. Ceiling Fan: Table Fan : abcdefg: \_\_\_\_\_
1. abcdefg
  2. abcdefg
  3. gfedcba
  4. None of these



**DIRECTIONS for question 50 and 51:** There is a statement followed by two arguments. Choose the correct option which gives the decision on the arguments, which is derived from the statement.

- 50.** Given Statement: The new amendment of Corporate Social Responsibility (CSR) in India refers to bringing an overall positive impact on the communities, cultures, societies and environments. The fundamentals of CSR rest on the fact that not only public policy but even corporate should be responsible enough to address social issues.

Argument I: Government should not enforce companies to take up CSR.  
Argument II: Companies moral responsibility is to take up CSR for a long run benefit.

1. Argument II is correct but Argument I is wrong
2. Argument I is correct but Argument II is wrong
3. Both the arguments are false
4. Both the arguments are correct

- 51.** LPG subsidy is a stand taken by the government. Linking of Aadhar card to a bank account has been made mandatory for receiving the subsidy.

Argument I: All people should give up LPG subsidies.  
Argument II: To fill the gap between poor and rich.

1. Argument II is the output of Argument I
2. Argument I is a byproduct of Argument II
3. Argument I and Argument II are complementing to each other
4. No logical link between Argument I and Argument II

- 52.** If CAB is coded as 723 – 5 58 in a coded language then how will DAD be coded ?

1. 4023 -5 4023
2. 4090 -5 4090
3. 1024 -5 1024
4. 1246 -5 1189

- 53.** If MONEY is coded as 144 200 171 0 600 then DOLLAR is coded as \_\_\_\_\_

1. - 9 200 199 119 - 24 299
2. - 8 200 106 106 - 20 200
3. 122 200 102 102 10 154
4. 120 200 101 101 08 156

- 54.** There are 100 MBA aspirants in a classroom and 99% of them are engineers. How many engineers must leave the classroom in order to reduce the percentage of engineers in the classroom to 98% ?

1. 1
2. 2
3. 50
4. 90

- 55.** Vikas was showing a photograph to his friend and pointed to a boy and told the following statement "His name is Atul and his maternal grandfather's brother is my maternal grandfather's sister's son." How is Atul related to Vikas ?

1. They are brothers
2. Vikas is the uncle of Atul
3. They are distant cousins
4. None of the above

56. There was a party organized and the following members attended the party : Sheela, Amruta, Rohit, Rahul, Ajey, Ranveer and Gauri.

Sheela is mother-in-law of Amruta, who is sister-in-law of Rohit. Rahul is the father of Ajey. Ajey is the brother of Rohit. Ranveer is the only brother of Rahul and the father-in-law of Gauri. Gauri was married to Rohit. How is Sheela related to Ranveer ?

1. Cousin                      2. Mother                      3. Sister                      4. None of the above

**DIRECTIONS for question 57 and 60:** Using the information given below answer the question from 57 to 60.

A chef is trying a recipe for a tasty ice cream using four ingredients. He can choose from three liquids for taste which are labeled A, B and C which are stable in nature and the choice for flavor can be from four liquids which are labeled W, X, Y and Z. For the new ice cream recipe to be tasty, there must be two liquids from the taste giving liquids. Also certain liquids cannot be mixed because of their reactions which makes it unhealthy for human consumption and the same is given below

B cannot be mixed with W

C cannot be mixed with Y

Y cannot be mixed with Z

57. If the chef calculated that Y is the most important flavor and must be used in the recipe, which other ingredients must be part of the recipe ?

1. A, B and W                      2. A, B and X                      3. A, B and Z                      4. B, C and X

58. If the chef rejected B because of its possible side effects but decided to use Z, which is a possible combination of the four ingredients in the recipe ?

1. A, C, W and Z                      2. A,X,Y and Z                      3. A,W,X and Z                      4. A,C,Y and Z

59. Which of the following combination of liquids is impossible ?

- I. Using Y and W together  
II. Using B and C together  
III. Using W, X and Z together

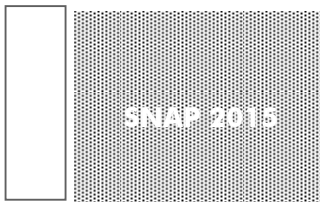
1. I only                      2. II only                      3. III and I only                      4. II and I only

60. Which of the following must always be true ?

- I. If C is used W must be added  
II. If Y is used B must be added  
III. If C is not used W cannot be added

1. I and II only                      2. II and III only                      3. I, II and III only                      4. II only





61. Which letter from the options given will replace the " ? " in the table given below

CAT 389376 DOG  
RAT 1758276 MAT  
CAB 15876 FAN  
CAN 571536 ?

1. MAN                      2. GIFT                      3. PAN                      4. SOFT

62. Which word from the given options will replace the "?" in the table given below

WOE	1089	MISERY
VANQUISH	1308	SUBDUE
TACITURNITY	1547	SILENCE
SPLEEN	1806	?

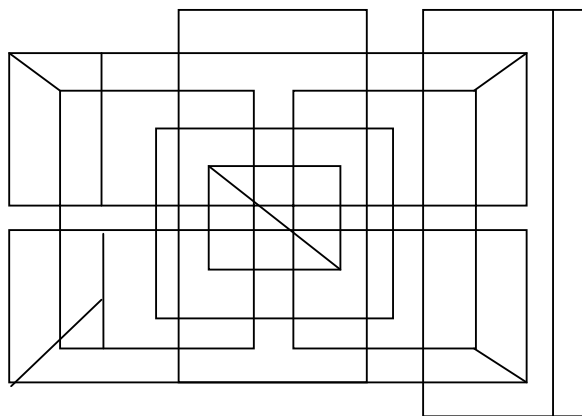
1. MALEVOLENCE   2. JOIN                      3. LINK                      4. DRIP

63. Which word from the given options will replace the " ? " in the table given below

MBA	728	NCB
BCA	24	CDB
BCS	24	CDT
FCA	?	GDB

1. 48                      2. 168                      3. 64                      4. 132

64. What is the least number of straight lines needed to draw the following diagram?



1. 39                      2. 40                      3. 42                      4. None of the above

65. If    :    THEN     : ?

1.    

2.    

3.  + 

4.  +  

**DIRECTIONS for question 66 and 70:** Based on the information given below answer the questions

Ten friends Matt, Sam, Pat, Tom, Sid, Alex, Kat, Jim, Jane and John are having dinner on a rectangular table. Eight facing each other along the length of the table while two facing each other along the smaller side of the table. Pat is sitting diagonally opposite to Kat, Alex is facing Jim, John is to the right of Jane, Tom is sitting between Sam and Jim, Pat is to the extreme left of Jane who is sitting on the extreme right along the length of the table. Sid is facing Tom and Matt is on the right of Sam.

66. Who do you think is sitting in front of each other along the small sides of the table ?

- |                  |                 |                 |                 |
|------------------|-----------------|-----------------|-----------------|
| 1. Matt and John | 2. Matt and Sam | 3. Matt and Kat | 4. John and Sam |
|------------------|-----------------|-----------------|-----------------|

67. Sid is sitting between which of the following two ?

- |                |                 |                  |                 |
|----------------|-----------------|------------------|-----------------|
| 1. Sam and Kat | 2. Pat and Alex | 3. Alex and Jane | 4. Kat and Jane |
|----------------|-----------------|------------------|-----------------|

68. Who are sitting diagonally opposite to each other ?

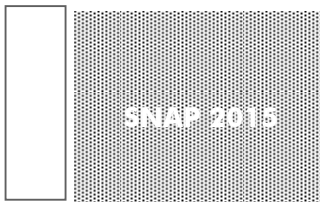
- |                |                 |                 |                 |
|----------------|-----------------|-----------------|-----------------|
| 1. Sid and Tom | 2. Sam and Jane | 3. Alex and Jim | 4. Jane and Kat |
|----------------|-----------------|-----------------|-----------------|

69. Who is sitting to the immediate right of Jim ?

- |        |         |         |        |
|--------|---------|---------|--------|
| 1. Sam | 2. Jane | 3. Alex | 4. Tom |
|--------|---------|---------|--------|

70. Who is sitting two places left to Jane ?

- |        |         |        |        |
|--------|---------|--------|--------|
| 1. Pat | 2. Alex | 3. Sid | 4. Sam |
|--------|---------|--------|--------|



**SECTION – III**

**GENERAL ENGLISH**

**Number of questions: 40**

- 71.** "To catch a tartar" means \_\_\_\_\_
1. To trap wanted criminal with great difficulty
  2. To catch a dangerous person
  3. To catch a person who is more than one's match
  4. To meet with disaster
- 72.** A leopard can't change its \_\_\_\_\_
1. Dots
  2. Stripes
  3. Colour
  4. None of the above
- 73.** "So sober sometimes serious Sam smiles on silly things" is a /an \_\_\_\_\_.
1. Hyperbole
  2. Assonance
  3. Anaphora
  4. Alliteration
- 74.** "The strength given by my mother is bigger than the cosmic energy in this cosmos" is \_\_\_\_\_
1. Rhyme
  2. Metaphor
  3. Personification
  4. Hyperbole
- 75.** The buzzing of bees is an example of \_\_\_\_\_
1. Simile
  2. Metonymy
  3. Onomatopoeia
  4. Paradox
- 76.** The word CACTI is of Latin origin. It can also be replaced by \_\_\_\_\_
1. Cactus
  2. Cats
  3. Cactuses
  4. Cactusus
- 77.** The word TROUSSEAUX is of French origin. It can also be replaced by \_\_\_\_\_
1. Troussers
  2. Trousseaus
  3. Trousears
  4. None of the above
- 78.** The singular of the word SCARVES is spelt as \_\_\_\_\_
1. Scarve
  2. Scarfe
  3. Scarv
  4. None of the above
- 79.** The "Drawing Pins" in British English is referred to as \_\_\_\_\_ in American English.
1. Thumb pins
  2. Board pins
  3. Broad pins
  4. Thumbtacks
- 80.** "Aubergine" in Britain is referred to as \_\_\_\_\_ in United States of America.
1. Migraine
  2. Eggplant
  3. Margarine
  4. Egg
- 81.** Base ball in American English is commonly referred to as \_\_\_\_\_ in British English.
1. Run ball
  2. Strike ball
  3. Rounders ball
  4. Rounders

**DIRECTIONS for question 82 and 84:** Complete the collocation words

82. \_\_\_\_\_ weapon

1. Nuclear                      2. Atomic                      3. Molecular                      4. Electronic

83. Seminal \_\_\_\_\_

1. News                      2. River                      3. Nuance                      4. Research

84. \_\_\_\_\_ Percentage

1. Huge                      2. Big                      3. More                      4. Large

85. The idiom "Against the clock" means

1. Break the Rules                      2. Rushed and short on time.  
3. Go back to the Past                      4. Look at the Past

86. The idiom "Buy a lemon" means \_\_\_\_\_

1. A superstitious way to say 'good luck' '  
2. A lie which is propaganda for people to believe  
3. An unbelievable story which is told for people to believe  
4. To purchase a vehicle that constantly gives problems or stops running after you drive it away.

87. Kedar uses the following sentence to introduce himself. Choose the correct option.

1. Myself Kedar, I belong to Mumbai  
2. Myself Kedar and I am from Mumbai  
3. Myself Kedar from Mumbai  
4. None of the above

88. Ram uses the following sentence to tell the time of the day to Shyam. Which one is the correct sentence ?

1. It is 2 pm in the afternoon                      2. It is 2 pm  
3. It is 2 pm in the noon                      4. It is 2 o'clock in the afternoon

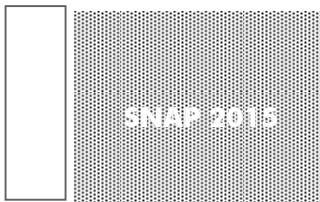
**DIRECTIONS for question 89 and 91:** In the questions from 89 to 91 parts have been underlined. If any rule of correct English is violated then it could be only in the UNDERLINED part, marked as 1, 2,3 or 4. Choose the option, which violates usage of correct English.

89. My Parents are Indians but I am born in Sydney.  
1                      2 3                      4

1. Only 1                      2. 1 and 3                      3. Only 3                      4. Only 4

90. Standing on the top of the tower the whole city could be seen.  
1 2 3

1. Only 1                      2. Only 2                      3. 1 and 2                      4. None of the above



91. Ganesh is taller than Ramesh but Anoop is more taller.  
1 2 3 4

1. Only 1                      2. Only 2                      3. Only 3                      4. Only 4

**DIRECTIONS for question 92 and 96:** Read the following passage and answer the questions

"There are several factors that contribute to wisdom. Of these I should put first a sense of proportion; the capacity to take account of all the important factors in a problem and to attach to each its due weight. This has become more difficult than it used to be owing to the extent and complexity of the specialized knowledge required of various kinds of technicians. Suppose, for example, that you are engaged in research in scientific medicine. The work is difficult and is likely to absorb the whole of your intellectual energy. You have no time to consider the effect which your discoveries or invention may have outside the field of medicine. You succeed (let us say), as modern medicine has succeeded, in enormously lowering the infant death-rate, not only in Europe and America, but also in Asia and Africa. This has the entirely unintended result of making the food supply inadequate and lowering the standard of life in the most populous parts of the world. To take an even more spectacular example, which is in everybody's mind at the present time- you study the composition of the atom from a disinterested desire for knowledge and incidentally place in the hands of powerful lunatics the means of destroying the human race. In such ways the pursuit of knowledge may become harmful unless it is combined with wisdom; and wisdom in the sense of comprehensive vision is not necessarily present in specialists in the pursuit of knowledge.

Comprehensiveness alone, however, is not enough to constitute wisdom. There must be, also, certain awareness of ends of human life. This may be illustrated by the study of history. Many eminent historians have done more harm than good because they viewed facts through the distorting medium of their own passions. Hegel had a philosophy of history which did not suffer from any lack of comprehensiveness, since it started from earliest time and continued into an indefinite future. But the chief lesson of history which he sought to inculcate was that from the year A.D. 400 down to his own time, Germany had been the most important nation and the standard bearer of progress in the world. Perhaps one could stretch the comprehensiveness that constitutes wisdom to include not only intellect but also feeling. It is by no means uncommon to find men/ women whose knowledge is wide but those feelings are narrow. Such men / women lack what I am calling wisdom.

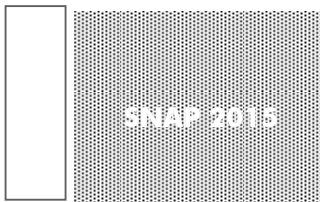
I think the essence of wisdom is emancipation, as far as possible, from the tyranny of the here and the now. We cannot help the egoism of our senses. Sight, sound and touch are bound up with our own bodies and cannot be made impersonal. Our emotions start similarly from ourselves. An infant feels hunger or discomfort; gradually with the years his horizon widens, and, in proportion as his thoughts and feelings become less personal and less concerned with his own physical states, he achieves growing wisdom. This is of course a matter of degree. No one can view the world with complete impartiality; however, it is possible to make a continual approach towards impartiality, on the one hand, by knowing things somewhat remote in time or space, and, on the other hand, by giving to such things their due weight in our feelings. It is this approach towards impartiality that constitutes growth in wisdom.

Perhaps in this sense the wisdom can be taught. I think that this teaching should have a larger intellectual element than has been customary in what has been thought of as moral instruction. I think that the disastrous result of hatred and narrow mindedness to those who fed them can be pointed out incidentally in the course of giving knowledge. Knowledge and morals ought not to be too much separated. It is true that the kind of specialized knowledge which is required for various kinds of skills has very little to do with wisdom. But it should be supplemented in education by wider surveys calculated to put it in its place in the totality of human activities. Even the best technicians should also be good citizens, i.e. citizens of the world and not of any one nation. With every increase of knowledge and skill, wisdom becomes more necessary for every such increase augments our capacity of realizing our purposes, and therefore augments our capacity for evil, if our purposes are unwise. The world needs wisdom as it has never needed it before; and if knowledge continues to increase, the world will need wisdom in the future even more than it does now.

92. According to the author what results in growth of wisdom ?
1. Widening Knowledge and narrowing feelings
  2. Acquiring specialized knowledge which is required for various kinds of skills
  3. Viewing the world with complete impartiality
  4. None of the above
93. According to the author the essence of wisdom is \_\_\_\_\_
1. Deliverance from the oppression of here and now
  2. Subduing from the oppression of here and now
  3. Captivity from the oppression of here and now
  4. All of the above
94. What according to the author is the relationship between knowledge and wisdom ?
1. As human wisdom increases there is increase in knowledge created
  2. As knowledge keeps on increasing there is lesser need of wisdom
  3. As knowledge keeps on increasing there is a higher need for wisdom
  4. As growth in wisdom stops, knowledge creation stagnates.
95. The example used by the author to explain the ways in which the pursuit of knowledge can be harmful, unless combined with wisdom, is
1. the space mission
  2. medicine that lowers infant mortality across the world.
  3. the progress of Germany.
  4. none of the above.
96. What factors according to the author, contribute to wisdom ?
1. a sense of proportion, giving knowledge, study of history, emancipation
  2. a sense of proportion, dignity, knowledge, skill
  3. comprehensiveness, a sense of proportion, awareness of the end of human life, emancipation from the tyranny of the present
  4. none of the above.

**DIRECTIONS for question 97 and 98:** Read each of the components of the given sentences and mark the component with grammatical error.

97. I. He is capable at  
II. twisting any fact  
III. without any suspicion  
IV. at any time.
1. Only I                      2. Only II                      3. Only III                      4. Only IV
98. I. My cousin brother, who lives  
II. in Goa, is eager to visit us  
III. in Mumbai and aspires to have  
IV. a glimpse of the city
1. Only I                      2. Only II and III                      3. Only IV                      4. None of the Above



**DIRECTIONS for question 99 and 100:** Choose the correct word which best fits for the sentence to be complete and grammatically correct.

**99.** It was no wonder that after the roads were closed with continuous snow fall, hotels started \_\_\_\_\_ off the tourists.

1. Raking                      2. Taking                      3. Beating                      4. Looting

**100.** When the penalty corner was saved, the players \_\_\_\_\_ in toward the goal keeper to congratulate him.

1. closed                      2. Went                      3. Crashed                      4. Pooled

**101.** The synonym for the word "Inclement" is

1. Stormy                      2. Intimate                      3. Advocacy                      4. Immediate

**102.** The antonym for the word "Taciturn" is \_\_\_\_\_

1. Garrulous                      2. Energetic                      3. Ephemeral                      4. Enigmatic

**103.** Complete with the appropriate collocation word \_\_\_\_\_ activism.

1. Judicial                      2. Legal                      3. Prosecutorial                      4. Lawful

**104.** If Propensity : Tendency then \_\_\_\_\_

1. Prologue: Epilogue    2. Master: Slave                      3. Audacity : Impudence    4. Conduct: Immorality

**105.** If Tepid: Hot then \_\_\_\_\_

1. Jealousy : Envy                      2. Hatred : Antipathy                      3. Unity : Harmony                      4. Joy : Ecstasy

**106.** From the following words pick the odd word out.

1. Lampoon                      2. Satire                      3. Ridicule                      4. Parable

**107.** From the following words pick the odd word out.

1. Euphemism                      2. Maxim                      3. Aphorism                      4. Dictum

**108.** From the following words pick the odd word out.

1. Force                      2. Intimidation                      3. Shakedown                      4. Bleak

**DIRECTIONS for question 109 and 110:** The questions 109 and 110 have sentences which are incomplete. Pick up one phrase / clause from the options given, that will complete the sentence logically.

**109.** To ensure success in a difficult task \_\_\_\_\_

1. one needs to be persistent                      2. persistence is needed  
3. you need a person of persistence                      4. persistence is what one needs

**110.** The more we looked at the piece of modern art \_\_\_\_\_

1. we liked it less                      2. better we liked it  
3. the less we liked it                      4. we liked it more and more

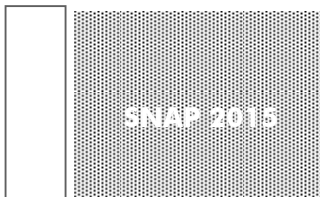
**SECTION – IV**

**QUANTITATIVE, DATA INTERPRETATION  
AND DATA SUFFICIENCY**

**Number of questions: 40**

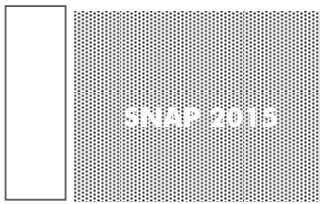
- 111.** A batsman was having 32 runs per innings as his average after 15<sup>th</sup> innings. His average increased by 2 runs after 16<sup>th</sup> inning. Then what was his score in the 16<sup>th</sup> inning?
1. 64                      2. 60                      3. 46                      4. 62
- 112.** The least number which is a perfect square and is divisible by each of the numbers 14, 16, 18 is
1. 6048                      2. 7056                      3. 1008                      4. 2046
- 113.** Four people clap after every 20 minutes, 30 minutes, 40 minutes and 50 minutes respectively. All of them clapped together at 10.00 am. Then they will again clap together at \_\_\_\_\_
1. 3 pm                      2. 5 pm                      3. 6 pm                      4. 8 pm
- 114.** Three candidates "A", "B", "C" participated in an election. "A" gets 40% of the votes more than "B". "C" gets 20% votes more than "B". "A" also overtakes "C" by 4000 votes. If 90% voters voted and no invalid or illegal votes were cast, then what will be the number of voters in the voting list?
1. 72000                      2. 80000                      3. 70000                      4. 78500
- 115.** In a competitive exam there were 5 sections. 10% of the total number of students cleared the cut off in all the sections and 5% cleared none of the sections. From the remaining candidates 30% cleared only section 1, 20% cleared only section 2, 10% cleared only section 3 and remaining 1020 candidates cleared only section 4. How many students appeared in the competitive exam ?
1. 2550                      2. 2800                      3. 3000                      4. 3200
- 116.** A man sold  $\frac{3}{5}$ <sup>th</sup> of his articles at a gain of 20% and the remaining at cost price. Find the gain earned in the transaction.
1. 8                      2. 10                      3. 12                      4. 14
- 117.** A trader sells 20 articles at Rs. 54 per article after giving 10% discount and gains 50% profit. If the discount is not given, the profit gained is \_\_\_\_\_
1. 56.76%                      2. 66.66%                      3. 62.66%                      4. 63.66 %
- 118.** A bottle contains 50 liters of milk. From this bottle 5 liters of milk was taken out and replaced the water. This process was repeated further for three times. How much milk is now contained in the bottle ?
1. 32.8 liters                      2. 34.4 liters                      3. 36.8 liters                      4. 46.5 liters
- 119.** A ball is dropped from a height of 200 meters. After striking the floor it re-bounces to  $\frac{4}{5}$ <sup>th</sup> of the height from where it fell. The total distance it travels before coming to rest is \_\_\_\_\_
1. 1200 meters                      2. 1600 meters                      3. 1800.meters                      4. 1820 meters



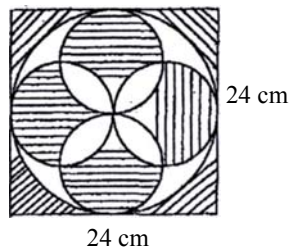


- 120.** The sum of all two digit numbers that give a remainder 2 when they are divided by 7 is \_\_\_\_\_
1. 552                      2. 654                      3. 658                      4. 684
- 121.** A man covers half of his journey by train at 90 km/hr, one-third of the remainder by bus at 30 km/hr and the rest by cycle at 10 km/hr. The average speed during the entire journey is \_\_\_\_\_
1. 22.5 km/hr              2. 28.5 km/hr              3. 30.0 km/hr              4. 32.5 km/hr
- 122.** John's grandfather was five times older to him 5 years ago. He would be two times of his age after 25 years from now. What is the ratio of John's age to that of his grandfather ?
1. 7:11                      2. 5:11                      3. 3:11                      4. 4:11
- 123.** A number when successively divided by 5 and 6 gives remainders 3 and 2 respectively. What will be the remainders if the number is successively divided by 3 and 4 ?
1. 2, 3                      2. 2, 1                      3. 1, 2                      4. 3, 4
- 124.** How many zeros would be there in  $1024!$
1. 240                      2. 248                      3. 256                      4. 252
- 125.** If  $x = 3 + 2\sqrt{2}$  what will be the value of  $x^2 + \frac{1}{x^2}$ ?
1. 35                      2. 32                      3. 36                      4. 34
- 126.** The unit digit in the final solution when,  $13*27*63*51*98*46$  is \_\_\_\_\_
1. 4                      2. 8                      3. 2                      4. None of the above
- 127.** A dishonest seller sells his grocery items using a false weight and thus gains 5% for a kilogram, he uses the weight of approximately \_\_\_\_\_
1. 940.251                  2. 943.123                  3. 948.238                  4. 952.381
- 128.** A, B and C can do a work in 6, 8 and 12 days respectively. If they do the work together and earn Rs. 2700, what is the share of C in that amount ?
1. 600                      2. 900                      3. 1000                      4. 700
- 129.** How many words each of two vowels and three consonants can be formed from the letters of the word "UNIVERSAL" ?
1. 7000                      2. 7200                      3. 7400                      4. 7800
- 130.** Three pipes A, B and C can fill a tank in 12 hours. All the pipes started working together and after 3 hours, C is closed. If A and B can fill the remaining part in 10 hours, then the number of hours taken by C alone to fill the tank is \_\_\_\_\_.
1. 100 hours                  2. 110 hours                  3. 120 hours                  4. 130 hours

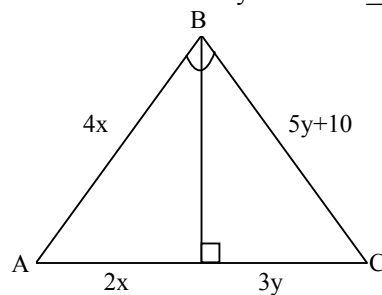
- 131.** If the numbers between 1 to 65 which will be divisible by 4 are taken and then if the number present in the units places and tens places is swapped, post which they are written in ascending order, then which of the following number will be at 10<sup>th</sup> place from the last ?
1. 40                      2. 24                      3. 44                      4. 25
- 132.** Ajit, Ravi and Hari were trying to hit a target. If Ajit hits the target 5 times in 8 attempts, Ravi hits it 3 times in 5 attempts and Hari hits it 2 times in 4 attempts. What is the probability that the target is hit by at least 2 persons ?
1. 40                      2. 24                      3. 44                      4. 25
- 133.** If  $\frac{1}{2}\log x + \frac{1}{2}\log y + \log 2 = \log(x + y)$  then \_\_\_\_\_
1.  $x = -y$                       2.  $x = y + 1$                       3.  $x = y$                       4.  $y = x + 1$
- 134.**  $\log_5 25 + \log_2 (\log_3 81)$  is
1. 1                      2. 2                      3. 3                      4. 4
- 135.** Peter was standing on the top of a rock cliff facing the sea. He saw a boat coming towards the shore. As he kept seeing time just flew. Ten minutes less than half of an hour, the angle of depression changed from 30 to 60. How much more time in minutes will the boat take to reach the shore ?
1. 5                      2. 10                      3. 15                      4. 20
- 136.** In a school where there was a compulsion to learn at least one foreign language from the choice given to them, namely German, French and Spanish. Twenty eight students took French, thirty took German and thirty two took Spanish. Six students learnt French and German, eight students learnt German and Spanish, ten students learnt French and Spanish. Fifty four students learnt only one foreign language while twenty students learnt only German. Find the number of students in the school.
1. 60                      2. 62                      3. 70                      4. None of the Above
- 137.** Sonali can solve 70% of the problems in a competitive exam and Nirali can solve only 60% in the same exam. What is the probability that at least one of them will solve a problem, provided selection of questions is done randomly from the same exam ?
1. 0.82                      2. 0.88                      3. 0.62                      4. 0.72
- 138.** Rs. XYZ was deposited at simple interest at a specific rate for 3 years. Had it been deposited at 2% higher rate, it would have fetched Rs. 360 more. Find Rs. XYZ.
1. Rs. 5500                      2. Rs. 5000                      3. Rs. 6000                      4. Rs. 4500
- 139.** A man invests certain amount at 6% per annum simple interest and another amount at 7% per annum simple interest. His income from the interest after 2 years was Rs. 348. The ratio of first amount to second is 4:5. Find the total amount invested.
1. Rs. 2600                      2. Rs. 2900                      3. Rs. 2700                      4. None of the above



- 140.** A person has a bag which contains 9 bulbs out of which 2 are fused and cannot be used to lighten the room. Two bulbs are selected at random. What is the probability that all the two bulbs chosen can be used to lighten the room ?
1.  $5/12$                       2.  $7/12$                       3.  $9/12$                       4.  $10/12$
- 141.** The value of  $(p-a) * (p-b) * (p-c)..... * (p-z)$  is \_\_\_\_\_
1. A complex polynomial which starts with  $p^{24}$   
2. Zero  
3. A complex polynomial which starts with  $p^{26}$   
4. A complex polynomial which has several variables including  $p^{26}$  and  $p^{24}$
- 142.** There are nine humans in a ship, each human has nine cages and each cage has nine huge lions and each lion has nine cubs. How many legs are there in the ship ? (Human have two legs, lions have four legs, cubs have four legs.)
1. 747                      2. 3258                      3. 29178                      4. 26561
- 143.** As shown in the figure, there is a square of 24 cm. A circle is inscribed inside the square. Inside the circle are four circles of equal radius which are inscribed. The total area of the shaded region in the figure given below is \_\_\_\_\_



1.  $576-196 \pi$                       2.  $584-196\pi$                       3.  $864-196 \pi$                       4. None of the above
- 144.** In the figure given below the value of x and y would be \_\_\_\_\_



1. 10 and 15                      2. 15 and 10                      3. 06 and 12                      4. 12 and 06

- |             |   |         |          |                    |
|-------------|---|---------|----------|--------------------|
| <b>147.</b> | If the total population of state A is 5000 then what is the no. of females above poverty line in state A?                                       |         |          |                    |
|             | 1. 2000   | 2. 2400 | 3. 2600  | 4. Data inadequate |
| <b>148.</b> | If the population of C&D together is 20000 what is the total no. of females below poverty line in the above states?                             |         |          |                    |
|             | 1. 5000   | 2. 6000 | 3. 7200  | 4. NOTA            |
| <b>149.</b> | If the population of males below poverty line in state C is 6000 & state E 1000 then what is the ratio of the total population of state C& E is |         |          |                    |
|             | 1. 2: 1   | 2. 3: 5 | 3. 11: 5 | 4. NOTA            |
| <b>150.</b> | If in state F population of females below poverty line is 16000, then what is the population of males below poverty line in that state?         |         |          |                    |
|             | 1. 8000   | 2. 6000 | 3. 12000 | 4. NOTA            |

Q.	Key	Explanations
1.	3	
2.	4	
3.	4	
4.	1	
5.	3	
6.	2	
7.	1	
8.	3	
9.	3	
10.	3	
11.	4	
12.	3	
13.	2	
14.	2	
15.	1	
16.	3	
17.	3	
18.	3	
19.	1	
20.	1	
21.	3	
22.	3	
23.	2	
24.	3	
25.	3	
26.	1	
27.	2	
28.	4	
29.	2	
30.	3	
31.	1	
32.	3	
33.	3	
34.	1	
35.	3	
36.	3	
37.	4	
38.	2	
39.	1	
40.	1	
41.	3	Any of the 2 bulbs are switched on one after the other for a different period of time i.e. one for a longer period and other shorter. Now we go upstairs. The hotter bulb is the one which was turned on for more time and vice-versa. Hence, the answer is 3 <sup>rd</sup> option.
42.	4	As amount of pre-paid expenses in the balance sheet, which were booked from the previous year to the current year was increased, means cash has reduced. Also what he gets from his fixed deposits increases, which is in equal to his sundry expenses. Hence the final effect on cash for this year is that it reduces.
43.	2	option 1 is incorrect as in this "Placements - my goal" is shown before "MBA Go Getters" which is against condition 3. option 3 is incorrect as in this "Placements - my goal" is shown before "The Life is your choice" which is against condition 3. option 4 is incorrect as in this "Laugh for a while" is shown after "MBA - Maha Budhiman Aadmi" which is against condition 2 Hence option 2 is correct which is satisfying all the conditions.
44.	1	Using the relation given between John & Joe and John & Jonathan we can calculate the ratio of their distribution of coins which also happens to be the ratio of their ages. As per the question, if John takes

		4 gold coins, Joe takes 3. So ratio between John : Joe = 4 : 3 and if John takes 6 coins, Jonathan takes 7. So, ratio between John : Jonathan = 6 : 7. Combining the 2 ratios we get John : Joe : Jonathan = 12 : 9 : 14 Now this totals upto 35. But the total of their ages = 17.5. Hence, their ages will be half of the given ratio i.e. John = 6 Joe = 4.5 and Jonathan = 7.
45.	3	When clock takes 7 seconds to strike 7, it means the clock takes 7 seconds to cover 6 gaps of time periods in between 7 gongs. Now to strike 11 o'clock the time periods will be 10. So, time taken will be $\frac{7}{6} \times 10 = 11.67 \text{ sec.}$
46.	2	The series is $2^2 - 2, 3^2 - 3, 5^2 - 5, 7^2 - 7, 11^2 - 11$ . So answer is $13^2 - 13$ i.e. 156.
47.	3	The logic is $0^2 - 1, 1^2 - 1, 2^2 - 1$ and $3^2 - 1$ . So answer is $2^2 - 1 = 3$
48.	2	Let G, S, R & N be their ages 15 years back. Let Amit & Keshav be born after x & y years, Thus their ages after 15 years can be written as A-x & K - y respectively. Thus the following equations are formed: $G = 2(S + R + N) \dots \dots \dots (1)$ $2(G + 15) = (S + 15) + (R + 15) + (N + 15) + \{A + (15 - x)\} + \{K + (15 - y)\} \dots (2)$ $S + 15 = \{A + (15 - x)\} + \{K + (15 - y)\} \dots \dots \dots (3)$ $G + 15 = (S + 15) + (R + 15) \dots \dots \dots (4)$ Substituting equation 3 in 2 & then equation 4 in the new equation formed, we get R = N. Thus G = 24. Therefore G's present age is $24 + 15 = 39$ years.
49.	3	Since R = N, therefore Ridhi & Nidhi are twins.
50.	1	The statement says that CSR should be followed not only by public but also by corporate which makes argument II as strong one. So the answer is option 1.
51.	4	As statement talks about importance of Aadhar card in getting LPG subsidy, the arguments seem to have no link in between. Hence, answer should be option 4.
52.	2	Looking at the options we conclude that (-5) is common in all choices so (A) will be coded as (-5). Now as C is 3 as per EJOTY, so squaring it makes 9 and further cubing it makes 729. Now subtract 6 to get 723. The same is applicable for B also which makes $2 \rightarrow 4 \rightarrow 64 - 6 \rightarrow 58$ . Now $D \rightarrow 4 \rightarrow 16 \rightarrow 4096 - 6 \rightarrow 4090$ . Hence answer is 2 <sup>nd</sup> option.
53.	1	Logic used is $(ENJOTY)^2 - 25$ . i.e. MONEY = $(13)^2 (15)^2 (14)^2 (5)^2 (25)^2$ $\begin{array}{cccccc} 169 & 225 & 196 & 25 & 625 \\ -25 & -25 & -25 & -25 & -25 \\ \hline & 144 & 200 & 171 & 0 & 600 \end{array}$ Hence DOLLAR is option 1
54.	3	Total aspirants = 100. Engineers = 99. Now to make the engineers 98% of total so $99 - x = \frac{98}{100}(100 - x)$ . Solving x = 50.
55.	2	Vikas is the uncle of Atul.
56.	4	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>(+) <u>Ranveer</u> (Brother)</p> </div> <div style="text-align: center;"> <p>(+) <u>Rahul</u> (Father)</p> </div> <div style="text-align: center;"> <p>(-) <u>Sheela</u> (Mother)</p> </div> </div> <div style="text-align: center; margin-top: 20px;"> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <p>(-) <u>Gauri</u></p> </div> <div style="text-align: center;"> <p>(+) <u>Rohit</u></p> </div> <div style="text-align: center;"> <p>(-) <u>Amruta</u></p> </div> <div style="text-align: center;"> <p>(+) <u>Ajay</u></p> </div> </div> <p>Hence, Sheela is the sister-in-law of Ranveer.</p>
57.	2	If Y is used, then C cannot be used. So, A & B must be used. If B is used then W cannot be used. So, the only ingredients left are A, B & X.
58.	1	If B is rejected then A & C must be used. Also Z is used so Y cannot be used but W has to be used due to B's rejection. Hence, ingredients used are A, C, W & Z.
59.	3	I) W & Y if used then we cannot use B & C which is not possible II) B & C can be used together.

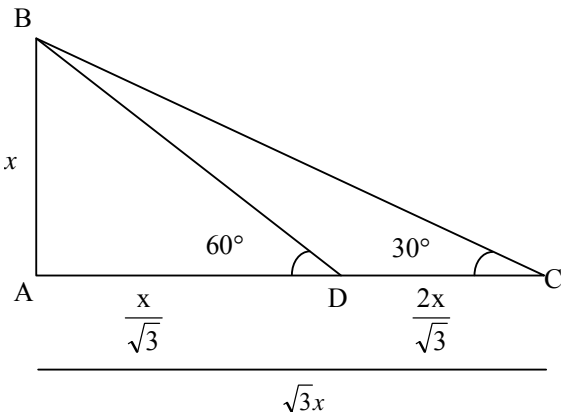
		III) W, X & Z cannot be used together as we will be left with only one ingredient to be used out of A, B & C which is not possible. Hence, option 3 <sup>rd</sup>
60.	2	I) If C is used Y is not used and Z can be used. Now we are left with one ingredient out of W & X so we can use any. So, must not be true. II) If Y is used, C cannot be used hence, A & B must be used. III) If C is not used, A & B must be used and W cannot be used. Hence, option 2 <sup>nd</sup> .
61.	2	The logic used is product of the squares of EJOTY sum i.e. e.g. CAB = 3 + 1 + 2 = 6 <sup>2</sup> = 36. FAN = 6 + 1 + 14 = 21 <sup>2</sup> = 441. $\Rightarrow 441 \times 36 = 15876$ Hence, CAN = 3 + 1 + 14 = 18 <sup>2</sup> = 324. So, $\frac{571536}{324} = \sqrt{1764} = 42 \Rightarrow \text{GIFT}(7 + 9 + 6 + 20)$
62.	4	The logic used is addition of the EJOTY sum of two words is done and then reversed. e.g. WOE = 43 and MISERY = 89. $\Rightarrow 89 + 43 = 132 \Rightarrow 231$ Now, SPLEEN = 71 and total should be 118. So, the EJOTY of other word must be 47 which is DRIP.
63.	4	The logic used is that we take the EJOTY sum of both the letter groups and write them in reverse order i.e. MBA = 16 and NCB = 19 so we take 1916. Likewise BCA = 6 and CDB = 9 so we have 96 and finally FCA = 10 and GDB = 13 so answer is 1310.
64.	1	Counting the straight lines we get 39.
65.	3	The logic used is that take the first letter of the word represented by pictures i.e. (B)EE - (4) Fingers - (U)MBRELLA = B4U (M)ONKEY - (T)EA - (V)ICTORY = MTV (N)OSE - (D)OG - (T)EA - (V)ICTORY = NDTV Since all are TV channels so only option is 3 <sup>rd</sup> which is STAR PLUS
66-70.		
66.	1	As per the diagram we observe that Matt and John are sitting in front of each other along the small sides of the table.
67.	2	As per the diagram we observe that Sid is sitting between Pat and Alex.
68.	2	As per the diagram we observe that Sam and Jane are sitting diagonally opposite to each other.
69.	4	As per the diagram we observe that Tom is sitting to the immediate right of Jim.
70.	3	As per the diagram we observe that Sid is sitting two places left to Jane.
71.	2	To catch a tartar means to catch a dangerous person
72.	4	The correct idiom is that leopard can't change its spots
73.	1	Hyperbole is the exaggeration of something and here also the same thing has happened. Assonance means resemblance, anaphora means repetition and Alliteration means occurrence of same letter
74.	2	Metaphor is an implied comparison and here the strength of a mother is compared with cosmic energy in cosmos.
75.	3	Onomatopoeia is something which imitates a natural sound of a thing.
76.	1	This word can be replaced by cactus
77.	4	The word TROUSSEAUX can be replaced by Trousseau, hence the answer is none of the above.
78.	4	The singular form of scarves should be scarf. So none of the above should be the answer.
79.	1	Drawing pin is referred as a thumb stack or a thumb pin.
80.	2	Aubergine is referred to as eggplant in USA.
81.	4	Baseball is called as Rounders in British English
82.	1	Nuclear weapon should go well in the blank
83.	4	Seminal Research is a company's name.
84.	4	Large percentage is the correct usage
85.	2	'Against the clock' means to do the work as fast as possible.

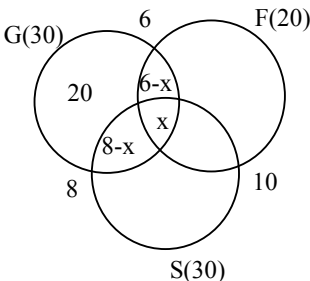
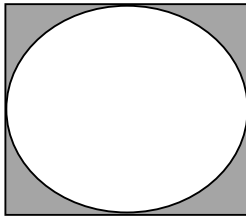
86.	1	It is a superstitious way to say good luck.
87.	4	Sentence never starts with myself
88.	4	It should be 2 o'clock in the afternoon
89.	2	Parents 'P' should not be in capital and 'was' in place of 'am'
90.	4	Since the sentence is in present tense, it should be 'can be' instead of 'could be'
91.	4	It should be 'taller' and not 'more taller'
92.	3	Refer 3rd Para, Last line "it is this ...in wisdom"
93.	2	Refer 3rd Para, 1st line, "I think ..senses"
94.	3	Refer Last Para, 8th line, "With every ...are unwise"
95.	2	Refer 1st Para, 4th line, "Suppose, for example..pursuit of knowledge"
96.	3	It is mentioned in the paragraph that above mentioned four things contribute to wisdom. This question is based on understanding of the whole passage.
97.	1	It should be 'capable of' instead of 'capable at'.
98.	1	It should be cousin , not cousin brother
99.	1	As per the context it should be 'hotels started charging higher than stipulated so 'raking off', which means 'taking/extracting money illegally'.
100.	3	Crashed in means something happening loud or to collide
101.	1	Inclement means something very cold or stormy
102.	1	Taciturn means shy and the opposite is garrulous which means somebody who speaks a lot.
103.	1	It is judicial activism which means a political issue.
104.	3	Since the given pair is of synonyms, hence the answer should also be a synonym pair
105.	4	Tepid means lukewarm i.e. lesser than hot, so Joy means happiness lesser than ecstasy which means intense happiness.
106.	4	Parable means a lesson whereas the rest of the words mean mocking
107.	1	Euphemism means indirect way to soften the blow , but rest of the words mean a proverb
108.	4	Bleak means dull whereas rest of the words mean fear
109.	2	The name of the attribute will come and not the ambiguous pronoun.
110.	2	Parallelism should be maintained. "the more .. the better"
111.	1	Total score after 15 innings = $15 \times 32 = 480$ As the average increased by 2, so the new average is 34. Total score after 16 innings = $16 \times 34 = 544$ Hence score in 16 <sup>th</sup> inning = $544 - 480 = 64$
112.	2	The LCM of 14, 16, and 18 is 1008. Among the given options, only 7056 is a perfect square and is divisible by 1008.
113.	4	The LCM of 20, 30, 40, 50 is 600 So they will clap together after 600 minutes or 10 hours. So they will again clap together at 8pm
114.	2	Let B got x votes, so A got 1.4x & C got 1.2x Given that $1.4x - 1.2x = 4000$ $\Rightarrow x = 20000$ Hence total number of voters who voted = $x + 1.4x + 1.2x = 3.6x$ $= 3.6 \times 20000 = 72000$ Now as 90% people voted, so 90% of total voters = 72000 $\Rightarrow \text{Total voters} = \frac{72000}{90} \times 100 = 80000$
115.	3	Let total students are 100. So 15 cleared either no section or all sections. Out of the remaining 85 students, 60% cleared 1 section or 2 sections or 3 sections. So the no. of students who cleared 4 sections are 40% of 85 = 34. Now if 34 students cleared section 4, total students are 100 If 1020 students cleared section 4, total students = $\frac{100}{34} \times 1020 = 3000$ .
116.	3	As the man sold $\frac{3}{5}$ of the articles at 20% gain and rest at cost price, so the net percentage gain = $\frac{3}{5} \times 20 = 12\%$
117.	2	Let the marked price = Rs. 100 As after giving a discount of 10%, he is gaining 50%, so cost price = $\frac{90}{1.5} = \text{Rs } 60$

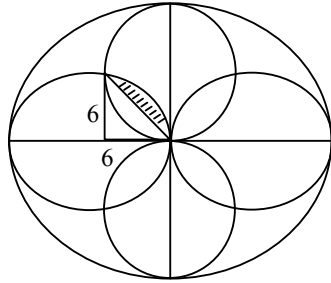
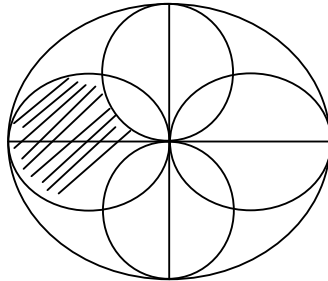


		Now if there is no discount, then SP = Rs. 100. $\therefore$ Gain = $100 - 60 = \text{Rs. } 40$ . $\therefore$ %age Gain = $\frac{40}{60} \times 100 = 66.66\%$
118.	1	Total milk = 50 L Volume of Mixture / Milk replaced each time = 5l. As this process is repeated 4 times, so the milk remained = $50 \left(1 - \frac{5}{50}\right)^4$ $= 50 \times \left(\frac{9}{10}\right)^4 = \frac{50 \times 9 \times 9 \times 9 \times 9}{10 \times 10 \times 10 \times 10} = 32.8 \text{ litre}$
119.	3	The first time, the ball covered 200m. After that it covered each distance twice, once upward and then downward. So the total distance covered $= 200 + 2 (160 + 128 + \dots)$ $= 200 + 2 \left[ \frac{160}{1 - \frac{4}{5}} \right] = 200 + 2 [160 \times 5]$ $= 200 + 2 (800) = 200 + 1600 = 1800\text{m}$
120.	2	The two digit numbers which give remainder 2, when divided by 7 are 16, 23, 30, 37, -----93. These are 12 numbers which form an A.P. with first term 16 and common difference 7. Their sum = $\frac{12}{2} [16 + 93] = 109 \times 6 = 654$ .
121.	1	Let the total distance = x km Average speed = $\frac{\text{Total distance}}{\text{Total time}}$ $= \frac{x}{\frac{x}{2} \times \frac{1}{90} + \frac{1}{3} \times \frac{x}{2} \times \frac{1}{30} + \frac{x}{3} \times \frac{1}{10}} = \frac{1}{\frac{1}{180} + \frac{1}{180} + \frac{1}{30}}$ $= \frac{1}{\frac{1+1+6}{180}} = \frac{180}{8} = 22.5 \text{ km/h.}$
122.	3	Let John's age 5 years ago = x His grandfather's age, 5 years ago = 5x. John's age after 25 years = x + 30 John's grandfather's age after 25 years = 5x + 30 Given that $5x + 30 = 2(x + 30)$ $5x + 30 = 2x + 60$ $3x = 30$ $x = 10$ $\therefore$ John's present age = x + 5 = 10 + 5 = 15 years. His grandfather's present age = 5x + 5 = 5 × 10 + 5 = 55 years $\therefore$ Reqd. Ratio is 15 : 55 or 3 : 11
123.	3	Let the quotient of last division is 1. So the number is $5 \times (6 \times 1 + 2) + 3 = 5 \times 8 + 3 = 43$ Now when 43 is divided successively by 3 and 4 the remainders are 1 and 2 respectively.
124.	4	The no. of zeroes are $\left[ \frac{1024}{5} \right] + \left[ \frac{1024}{5^2} \right] + \left[ \frac{1024}{5^3} \right] + \left[ \frac{1024}{5^4} \right] + \left[ \frac{1024}{5^5} \right] + \dots$ $= 204 + 40 + 8 + 1 = 253$ .
125.	4	We have $x = 3 + 2\sqrt{2}$

		$\Rightarrow x^2 = (3 + 2\sqrt{2})^2 = 9 + 8 + 12\sqrt{2} = 17 + 12\sqrt{2}$ $\text{and } \frac{1}{x^2} = \frac{1}{17 + 12\sqrt{2}} \times \frac{17 - 12\sqrt{2}}{17 - 12\sqrt{2}} = \frac{17 - 12\sqrt{2}}{289 - 288} = 17 - 12\sqrt{2}$ $\therefore x^2 + \frac{1}{x^2} = 17 + 12\sqrt{2} + 17 - 12\sqrt{2} = 34$
126.	1	The unit digit of $13 \times 27 \times 63 \times 51 \times 98 \times 46$ is same as that of $3 \times 7 \times 3 \times 1 \times 8 \times 6$ which is 4.
127.	4	<p>We know that, in case of wrong wt.</p> $\frac{1000 - \text{false wt.}}{\text{false wt.}} \times 100 = 5$ $\Rightarrow 1000 \times 100 - 100f = 5f$ $\Rightarrow 100000 = 105f$ $\Rightarrow f = \frac{100000}{105} = 952.381$ <p><math>\therefore</math> The weight used is 952.381gm.</p>
128.	1	<p>A, B, C can do the work in 6, 8 and 12 days respectively. Let the total work is 24 units. Hence A can do 4 units/day, B can do 3 units/day, C can do 2 units/day.</p> <p><math>\therefore</math> Work done by A, B, C is in ratio 4 : 3 : 2.</p> <p><math>\therefore</math> Rs. 2700 will be divided among A, B and C in 4 : 3 : 2</p> <p><math>\therefore</math> C's share = <math>\frac{2}{9} \times 2700 = \text{Rs.} 600</math></p>
129.	2	<p>In the word UNIVERSAL, we have 4 vowels U, I, E and A and 5 consonants N, V, R, L and S. We have to find the no. of words using 2 vowels and 3 consonants.</p> <p><math>\therefore</math> Total words = <math>{}^4C_2 \times {}^5C_3 \times 5! = 6 \times 10 \times 120 = 7200</math>.</p>
130.	3	<p>Let the tank is of 12 L and A, B, C can fill it in 12 hrs. So A, B, C are filling 1 L in 1hr. So in 3 hours, the total tank filled is 3 L. The remaining 9 L is filled by A &amp; B in 10 hours.</p> <p><math>\therefore</math> A &amp; B together can fill <math>\frac{9}{10}</math> l in 1 hours.</p> <p>So in 3 hours, A &amp; B can fill <math>\frac{27}{10}</math> l.</p> <p>Hence in 3 hours, C has filled <math>3 - \frac{27}{10} = \frac{3}{10}</math> l.</p> <p>Now <math>\frac{3}{10}</math> l is filled by C in 3 hours.</p> <p><math>\therefore</math> 12l is filled by C in <math>3 \times \frac{10}{3} \times 12 = 120</math> hours</p>
131.	1	<p>The numbers between 1 and 65, which are divisible by 4 are 04, 08, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52, 56, 60, 64.</p> <p>Now after swapping the unit digit and ten's digit we have 40, 80, 21, 61, 02, 42, 82, 23, 63, 04, 44, 84, 25, 65, 06, 46.</p> <p>Their increasing order is 02, 04, 06, 21, 23, 25, 40, 42, 44, 46, 61, 63, 65, 80, 82, 84.</p> <p>Hence 10<sup>th</sup> number from the last is 40.</p>
132.	2	<p>Probability of Ajit = <math>\frac{5}{8}</math>          Probability of Ravi = <math>\frac{3}{5}</math>          Probability of Hari = <math>\frac{1}{2}</math>          Probability that the target is hit by at least 2 persons = <math>1 - [\text{Prob of no hit} + \text{Prob of 1 hit}]</math>.</p> $= 1 - \left[ \frac{3}{8} \times \frac{2}{5} \times \frac{1}{2} + \frac{5}{8} \times \frac{2}{5} \times \frac{1}{2} + \frac{3}{8} \times \frac{3}{5} \times \frac{1}{2} + \frac{3}{8} \times \frac{2}{5} \times \frac{1}{2} \right]$ $= 1 - \left[ \frac{6 + 10 + 9 + 6}{80} \right] = 1 - \frac{31}{80} = \frac{49}{80}$

133.	3	<p>We have <math>\frac{1}{2} \log x + \frac{1}{2} \log y + \log 2 = \log (x + y)</math></p> <p><math>\Rightarrow \log 2\sqrt{xy} = \log (x + y).</math></p> <p><math>\Rightarrow x + y = 2\sqrt{xy}</math></p> <p><math>\Rightarrow (x + y)^2 = 4xy</math></p> <p><math>\Rightarrow x^2 + y^2 + 2xy = 4xy</math></p> <p><math>\Rightarrow x^2 + y^2 - 2xy = 0</math></p> <p><math>\Rightarrow (x - y)^2 = 0</math></p> <p><math>\Rightarrow x - y = 0</math></p> <p><math>\Rightarrow x = y</math></p>
134.	4	<p>We have <math>\log_5 25 + \log_2 (\log_3 81) = \log_5 5^2 + \log_2 (\log_3 3^4)</math></p> <p><math>= 2\log_5 5 + \log_2 (4 \log_3 3)</math></p> <p><math>= 2 + \log_2 4 = 2 + \log_2 2^2</math></p> <p><math>= 2 + 2\log_2 2</math></p> <p><math>= 2 + 2</math></p> <p><math>= 4</math></p>
135.	2	<p>Let AB is the rock and the boat is going from C to D.</p> <p>We have <math>\angle BCA = 30^\circ</math> and <math>\angle BDA = 60^\circ</math></p> <p>Let <math>AB = x</math></p> <p>In <math>\triangle ABD</math>, <math>\frac{AB}{AD} = \tan 60^\circ = \sqrt{3} \Rightarrow \frac{x}{AD} = \sqrt{3} \Rightarrow AD = \frac{x}{\sqrt{3}}</math></p>  <p>In <math>\triangle ABC</math>, <math>\frac{AB}{AC} = \tan 30^\circ \Rightarrow \frac{x}{AC} = \frac{1}{\sqrt{3}} \Rightarrow AC = \sqrt{3}x</math></p> <p><math>\therefore CD = AC - AD = \sqrt{3}x - \frac{x}{\sqrt{3}} = \frac{2x}{\sqrt{3}}</math></p> <p>Now the boat takes 20 minutes to cover <math>\frac{2x}{\sqrt{3}}</math> distance</p> <p>So it will take 10 minutes to cover <math>\frac{x}{\sqrt{3}}</math> distance.</p> <p>Hence it will reach the shore in 10 minutes.</p>
136.	1	<p>Let the number of students who learnt all the three languages is x.</p> <p>Now <math>20 + 6 - x + x + 8 - x = 30</math></p> <p><math>\Rightarrow 34 - x = 30</math></p> <p><math>\Rightarrow x = 4</math></p>

		 <p>Hence the total number of students  <math>= 30 + 20 + 30 - 6 - 8 - 10 + 4 = 60</math></p>
137.	2	<p>Probability that Sonali can solve the problem <math>= P(S) = \frac{7}{10}</math></p> <p>Probability that Nirali can solve the problem <math>= P(N) = \frac{6}{10}</math></p> <p>Probability that at least one of them will solve the Problem <math>= 1 - (\text{none has solved it}) = 1 - \left( \frac{3}{10} \times \frac{4}{10} \right) = 1 - \frac{12}{100} = \frac{88}{100} = 0.88</math></p>
138.	3	<p>Let 'a' is the amount invested and 'r' is the rate percent per annum.</p> $\therefore \frac{a \times (r + 2) \times 3}{100} - \frac{a \times r \times 3}{100} = 360$ $\Rightarrow \frac{a \times 6}{100} = 360 \Rightarrow a = \text{Rs. } 6000.$
139.	3	<p>The ratio of first amount to second is 4 : 5</p> <p>Let the two amounts are 4x &amp; 5x respectively.</p> <p>Now we have <math>\frac{4x \times 6 \times 2}{100} + \frac{5x \times 7 \times 2}{100} = 354</math></p> $\Rightarrow \frac{118x}{100} = 354$ $\Rightarrow x = 300$ <p>Hence the total amount invested <math>= 4x + 5x = 9x = 9 \times 300 = 2700</math></p>
140.	2	<p>The total no. of selection of 2 bulbs out of 9 <math>= {}^9C_2</math></p> <p>As the two selected bulbs can be used to lighten the room, hence it can be done in <math>{}^7C_2</math> ways.</p> $\therefore \text{Reqd. Probability} = \frac{{}^7C_2}{{}^9C_2} = \frac{7 \times 6}{9 \times 8} = \frac{7}{12}$
141.	4	<p>We have <math>x = (p - a) \times (p - b) \times (p - c) \times \dots \times (p - z)</math>.</p> <p>As it contains 26 terms, so the product will have one of the terms as <math>(p - p)</math> which is zero. Thus, the product of the 26 terms with one term being zero will be surely zero. Hence option 2 is the answer.</p>
142.	3	<p>In one cage there are 9 lions and 81 cubs.</p> <p>So there are 90 animals in one cage</p> <p>Hence there are 360 legs in one cage.</p> <p>Since one man has 9 cages, so total legs of animals with one man <math>= 9 \times 360 = 3240</math></p> <p>Now there are 9 men, so total legs <math>= 3240 \times 9 + 9 \times 2 = 29160 + 18 = 29178</math></p>
143.	4	<p>We will solve this question in parts.</p> <p>(i) Area of shaded region</p> $= 576 - \pi (12)^2$ $= 576 - 144\pi$ 

		<p>(ii) Area of shaded region = Area of quarter circle – Area of triangle <math display="block">= \frac{1}{4} \times \pi(6)^2 - \frac{1}{2} \times 6 \times 6 = 9\pi - 18</math></p> <p>(iii) Area of shaded circle = Area of circle – Area of 2 petals <math display="block">= \pi(6)^2 - 4(9\pi - 18)</math><math display="block">= 36\pi - 36\pi + 72 = 72</math></p> <p>Thus area of 4 shaded circular regions = <math>72 \times 4 = 288</math> Hence total shaded area of given figure = <math>576 - 144\pi + 288 = 864 - 144\pi</math></p>	 
144.	1	<p>The area of the 1<sup>st</sup> circle is <math>35^2 \times \pi = 1225\pi</math>. The diameter of the circle becomes the hypotenuse of the triangle. So the sides of the triangle are <math>35\sqrt{2}</math> each and the semi-perimeter of the triangle is <math>35(\sqrt{2} + 1)</math>. If <math>r</math> is the in-radius of this triangle, then <math>\frac{1}{2} \times 35\sqrt{2} \times 35\sqrt{2} = r \times 35(\sqrt{2} + 1)</math> <math>\Rightarrow r = 35 / (\sqrt{2} + 1)</math>. So the diameter of this circle is <math>70 / (\sqrt{2} + 1)</math> and this is also the hypotenuse of the 2<sup>nd</sup> triangle. The sides of this triangle are <math>35\sqrt{2} / (\sqrt{2} + 1)</math> each. So the area of this triangle is <math>\frac{1}{2} \times [35\sqrt{2} / (\sqrt{2} + 1)]^2</math> <math>= 1225 / (\sqrt{2} + 1)^2</math>. The required ratio is <math>\pi(\sqrt{2} + 1)^2</math>.</p>	
145.	2	<p>Suresh had lunch for Rs. 162 and took back Rs. 338. Similarly he had snack box for Rs. 37 and took back Rs. 63 So in total he took <math>162 + 338 + 37 + 63 = \text{Rs. } 600</math> from the restaurant. Now you can assume that he gave no money to the restaurant. (As both of his notes were counterfeit). So the restaurant gave him Rs. 600 and got nothing. So the total loss is Rs. 600.</p>	
146.	3	<p>We have <math>2^x + 2^{x+1} = 48</math> <math>\Rightarrow 2^x(1 + 2) = 48 \Rightarrow 3 \times 2^x = 48 \Rightarrow 2^x = 16</math> <math>\Rightarrow 2^x = 2^4 \Rightarrow x = 4</math>. Hence <math>x^x = 4^4 = 256</math></p>	
147.	2	<p>Total population of A = 5000 Since 16% population is below poverty lines so 84% is above poverty line <math>\therefore</math> Pop. above poverty line = 84% of 5000 = 4200 Ratio of males and females above poverty line is 3 : 4 <math>\therefore</math> No. of females above poverty line = <math>\frac{4}{7} \times 4200 = 2400</math></p>	
148.	4	<p>As the total population of C &amp; D is given, so we cannot find the individual number of females below poverty line.</p>	
149.	1	<p>The ratio of Males and Females below poverty line in C is 3 : 4. Since there are 6000 males below poverty line in C, so there will be 8000 females below poverty line. Hence total people below poverty line in C = <math>6000 + 8000 = 14000</math>. Now this is 14% of total population. Hence 14% of total population = 14000 <math>\therefore</math> Total pop = 100000 The no. of males below poverty line in E is 10000 and the ratio is 4 : 1. Hence there are 2500 females in E below poverty line. So total people below poverty line is 12500 which is 25% of total population. Hence total population of state E = 50000 Hence the reqd. ratio is 100000 : 50000 or 2 : 1</p>	
150.	3	<p>The no. of females below poverty line is 18000 and the ratio of males and females in state F below poverty line is</p>	

2 : 3. Let there are x males.

$$\text{Hence } \frac{x}{18000} = \frac{2}{3} \Rightarrow x = 12000.$$

**SECTION – I****GENERAL AWARENESS****Number of questions: 40**

1. Football club has been promoted to the Premier League Season 2016–17.

**Ans:** Burnley

2. Who won the 2016 Nobel Prize for Literature?

**Ans:** Bob Dylan

3. Who will take over as the new UN Secretary General?

**Ans:** Antonio Guterres

4. Who beat Michael Phelops in Rio to claim Singapore's first ever Gold Medal in the Olympics.

**Ans:** Joseph Schooling

5. Which country did Germany defeat to clinch the FIFA World Cup trophy in 2014?

**Ans:** Argentina

6. The Kigali Agreement is related to

**Ans:** Phasing down the use of Hydrofluorocarbons

7. This Indian company was listed among the Top 50 global R&D spenders in 2015.

**Ans:** Tata Motors

8. Which tournament is known as Women's "Davis Cup"?

**Ans:** Fed Cup

9. Who retired in December 2015 as Chairperson of HSBC India.

**Ans:** Naina Lal Kidwai

10. The project has been launched in to make National Highways free of Railway Crossings?

**Ans:** Setu Bharatam

11. Who is the first African-American whose portrait will appear on the new series US\$20 currency notes?

**Ans:** Harriet Tubman

12. The Oscar 2016 Best Movie? Ans.

**Ans:** Spotlight

13. Who is the youngest cricketer to score 10000 test runs?

**Ans:** Alistair Cook

14. Indian scientist was honored by the International Astronautical Federation's Hall of Fame award in 2016.

**Ans:** U R Rao

15. The first Muslim mayor of London?

**Ans:** Sadiq Khan

16. The organization recently signed an agreement to acquire LinkedIn?

**Ans:** Microsoft

17. Flipkart acquired this fashion portal in July 2016?

**Ans:** Jabong

18. Which operation was launched to evacuate Indians stranded in South Sudan in July 2016?

**Ans:** Ankat Mochan

19. The Lata Mangeskar Award for Lifetime Achievement in 2016 is given to.

**Ans:** Uttam Singh

20. The world's largest solar power plant at a single location is in

**Ans:** Kamuthi, Tamil Nadu

21. The name of Google's instant messenger is

**Ans:** Allo

22. Which organization took control of Time Warner Cable?

**Ans:** Charter Communications

23. The current Vice President of USA is?

**Ans:** Joe Biden

24. Which technology company did Dell Inc, acquire in 2016 and create the largest technology merger in history?

**Ans:** EMC Corp

25. Match the following persons to the position they hold

**Ans:** Janet Yellen - US Fed Reserve  
Urjit Patel - RBI



**26.** The Paralympian was sentenced to six and half years of imprisonment in 2016 for the murder of his girlfriend.

**Ans:** Oscar Pistorius

**27.** The mini satellite developed by engineering students of Pune, and launched by ISRO

**Ans:** Swayam

**28.** Which animal carried out an attack at Disneyland, killing a 2 years old boy?


**Ans:** Alligator

**29.** British MP was shot to death in 2016

**Ans:** Jo Cox

**30.** The most realistic humanoid robot did China unveil recently?

**Ans:** Jia Jia

**SECTION – II****ANALYTICAL AND LOGICAL REASONING****Number of questions: 30****31.** Number 100 to be written in form of mixed numbers using digits 1 to 9.**Ans:** 11\***32.** Letters missing in the series S \_ M F T M \_**Ans:** J, W\***33.** Question on orange and lemon juice.**Ans :** Cannot be determined**34.** Question on boat and cloud burst. The boat was already two feet submerged , the total height of the boat was six feet.**Ans :** None of the above**35.** 

The next pattern would be

**Ans:** **36.** Missing terms of the series 1, 2, 8, – 10, \_\_\_\_, \_\_\_\_, \_\_\_\_**Ans:****37.** What is Step 4 for an input whose Step 2 was given.  
765, 42, 183, 289, 542, 65, 110, 350**Ans:** 765 42 542 65 183 289 110 350**38.** Step 1 of the input was given,  
785, 198, 32, 426, 373, 96, 49  
had to find which step would have the given arrangement  
785, 32, 426, 49, 198, 373, 96**Ans:** Step 4**39.** Number of steps required to get the given final input.  
39, 88, 162, 450, 386, 72, 29**Ans:** 5

40. What will be the Step 3 of the following Input?  
239, 123, 58, 361, 495, 37

Ans: 495, 37, 361, 239, 123, 58

41. New mobile application which can calculate lifespan.

Ans: 2 and 4 are correct

42. Represent the word PUBLIC by numbers

Ans: 12, 30, 87, 41, 66, 33

43. Find the missing number. 24, 39, 70,  
123, ?, 319  
474, ?, 928

Ans:

44. Find the missing number.  
1001, 11001, \_\_\_\_

Ans:

45. Find the missing number.  
A B C D  
17 2 34 3  
H G F E  
5 ? 4 102

Ans: 408

46. Three circles to be moved in the diagram to make it vertically flipped

Ans: A G J

47. The largest among given Roman numerals

Ans: CLXVI

48. Four volumes of books, thickness 4cm. Worm had to travel.....

Ans: 16 cm\*

49. Number of triangles in the given figure

Ans: 23

50. 7 friends and colour of their dresses

Ans: Indigo

**51.** Hour hand and the minute hand be together between 2 O'clock and 3 O'clock?

**Ans:** 10.9090 mins past two

**52.** The Independence Day in 1989 given that it was a Wednesday in 1988

**Ans:** Thursday

**53.** A man stands on the middle step of a ladder cleaning the window panes of a building. He climbs six step up....

**Ans:** 29 steps

**54.**  $A + B$  means A is the brother of B;  $A - B$  means A is mother of B and  $A * B$  means A is the sister of B. Which of the following means C is the maternal uncle of D?

**Ans:**  $C + K - D$

**55.** If  $4 - 2 = 6$ ,  $15 - 3 = 12$  and  $13 - 2 = 26$ , then  $35 - 5 = ?$

**Ans:** 07

**56.** In a class of 100 students there are 10 who had no knowledge in Integral Calculus or English Literature. 70 students were experts in integral calculus...

**Ans:** 62

**57.** An automatic cutter takes one minute to cut any wooden or a metal piece..... How long will it take to cut a 15 feet wooden piece...

**Ans:** 14 mins

**58.** A is the father of C and D is son of B. E is the brother of A.... How is I related to B?

**Ans:** Sister in Law

**59.** David, Jack, Henry, Paul and Peter are in a park. They find a bench and decide to sit in a line next to the another....

**Ans:** David is sitting in the middle and Henry is sitting along with David (2 and 3 are true)

**60.** Find the odd man out .

**Ans:** 6174\*

**61.** There are four friends A, B, C and D. The average of their heights is 74 inches.... What is the height of the tallest?

**Ans:** 80 inches

**62.** Amit and Sumit are discussing about the temperature in Himalayas. Amit says ..... Zero Centigrade i.e 32 F....

**Ans:** Both Amit and Sumit are correct.

63. A boy is stuck in a deep trap which is 30 meters in depth. Manages to climb 3 meters in a day and slides 2 meter in the night.....

Ans: 28 days

64. Money: 144 then Dollar: \_\_\_\_\_

Ans: 124

65. Find the next picture in the following series



Ans:



66. Find the next picture in the following series.



Ans:



67. There are 30 railway stations between A and B, which includes A and B.... Number of tickets issued at station A .....

Ans: 870

68. Many political activists have decided to start demonstrations and block traffic movement in the city during peak hours to protest against the steep rise in prices of essential commodities.

Ans: The police should deploy additional forces all over the city.

69. Select the missing number from the given responses.  
180, 370, 750, 1510, 3030, ?

Ans: None of these

70. Find the missing number.

2    3    5  
9    17    33  
65    129    ?

Ans: 257

**SECTION – III****GENERAL ENGLISH****Number of questions: 40**

**71.** Last year ... PM \_\_\_\_ the festival with troops.

**Ans:** Spent

**72.** Marine algae \_\_\_\_\_ a key role ...

**Ans:** Plays

**73.** 365 farmers ended their \_\_\_\_

**Ans:** Higher

**74.** The students were awaiting \_\_\_\_\_

**Ans:** None of the above. No article is needed.

**75.** Rich merchant was loved for \_\_\_\_

**Ans:** Magnanimous, Generous

**76.** Father had little cause to \_\_\_\_ dot com boom to doom.

**Ans:** Regret, Rue

**77.** doubtful about making a judgement

**Ans:** Agnostic

**78.** Deja vu

**Ans:** Already seen

**79.** Sunflower, moonlight etc. are:

**Ans:** Compound words

**80.** Nadir

**Ans:** Lowest point

**81.** Abstruse

**Ans:** Obtuse

**82.** Ebullient

**Ans:** Jovial

**83.** Please \_\_\_\_\_ me so with your valuable

**Ans:** Advise, Advice

84. Alluding the police \_\_\_\_

**Ans:** Alluding, Elude

85. Discrete / Discreet

**Ans:** Distinct/Subtle

86. Ingenious / Ingenuous

**Ans:** Clever/Innocent

87. Gregarious

**Ans:** Reserved

88. Querulous

**Ans:** Affable

89. Lucid

**Ans:** Obscure

90. Achilles' heel meaning ?

**Ans:** Everyone has a vulnerable point

91. Wealthy : Indigent

**Ans:** Graceful : Gauche

92. Almond : Nut

**Ans:** Cheddar : Cheese

93. Chaff : Wheat

**Ans:** Dregs : Wine

94. Arrange the sentences below in the correct sequence to create the most logical paragraph.

- A. The special package ...
- B. This is expected to..
- C. The subsidy transmission...
- D. Besides, the government...
- E. However,...
- F. "All these measures..." Original source:

**Ans:** [http://www.business-standard.com/article/companies/green-shoots-in-textiles-and-garments-sector-116110100732\\_1.html](http://www.business-standard.com/article/companies/green-shoots-in-textiles-and-garments-sector-116110100732_1.html) - Source The original passage had a slightly different sentence order. However, no such option was given in the question.

**95.** Arrange the sentences below in the correct sequence to create the most logical paragraph.

- A. Insuring your vehicle...
- B. What only a few people...
- C. This compensation can run...
- D. This third – party liability...
- E. General insurance companies...
- F. They contend they are losing...

**Ans:** The source is <http://economictimes.indiatimes.com/wealth/insure/get-5-essential-insurance-plans-for-just-rs-2620-per-month/articleshow/54994007.cms> The sentences came in the right order.

**96.** Passage is written by \_\_\_\_ and highlights \_\_\_\_

**Ans:** Three academics from countries, ideological differences.

**97.** Fiscal austerity is given to:

**Ans:** They believe ...main culprits..profligacy...

**98.** Why was 1945 important?

**Ans:** The perspectives were reversed before this year.

**99.** French or German perspectives:

**Ans:** There was only one option which mentioned FFG...

**100.** What optimistic solution is suggested?

**Ans:** A Europe-wide insurance mechanism...

**101.** Reviewer of the book feels about the future of Euro – zone:

**Ans:** All the statements are true.

**102.** What is the reason that sewage sludge has not been used earlier?"

**Ans:** Sludge is too wet and is intensive and expensive.

**103.** Name of the revolutionary technology:

**Ans:** Hydrothermal liquefaction.

**104.** Names of the processes:

**Ans:** Heat and Pressure

**105.** Fats and Lipids sludge help to:

**Ans:** First three statements were true and the last one was not.

**106.** Nutrient's name:

**Ans:** Phosphorous



**107.** Rearrange the sentences to form a logical paragraph.

- A. Everyone in Bitcoin network...
- B. All transactions...
- C. These sites...
- D. Exchanges provide...

**Ans:** Original source: <https://simple.wikipedia.org/wiki/Bitcoin>

**108.** CR question – Conclusion from the paragraph related to “Brain is a wrinkly organ!”

**Ans:** The brain grows very fast in early childhood.

**109.** Many countries have compulsory voting. Weakening the argument.

**Ans:** The system of law is slow.

**110.** ‘Baker’s dozen’ meaning -

**Ans:** Thirteen.

**SECTION – IV****QUANTITATIVE ABILITY****Number of questions: 40**

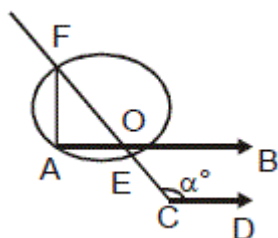
111. When the equation  $\{(x + y)^3 - (x - y)^3 - 6y(x^2 - y^2)\} * y$  is simplified, it gives the expression

**Ans:** None of the above ( $8y^4$ )

112. If  $\frac{\sqrt{2} + \sqrt{3}}{3\sqrt{2} - 2\sqrt{3}} = a - b\sqrt{6}$  the a and b would be

**Ans:** 2,  $-5/6$

113. In the figure given below  $AB \parallel CD$ ,  $a^\circ$  would be



**Ans.**  $135^\circ$

Note: The questions can't be answered on the basis of given information; however, the best answer out of the given options can be  $135^\circ$ .

114. If  $\sum_{i=1}^n (x_i - 2) = 110$  and  $\sum_{i=1}^n (x_i - 5) = 20$   
then n would be \_\_\_ and mean would be

**Ans:** 30,  $17/3$

115. A number of dogs get together and decided to kill between then 999919 cats. Each dog killed equal number of cats. How many dogs were there?

**Ans:** None of these (991)

116. A specially designed cycle has different sized wheels at the front and back. What is the circumference of the front wheel?

**Ans:** 8 feet

117. A started to chase B, when B was 27 steps ahead of A..... After how many steps did A catchup with B?

**Ans:** 30

118. Square block which is 4m X 4m. Which is the possible solutions that gives the liters of paints that was used for the design.

**Ans:**

**119.** Magical bells which ring 18 times in a day. The maximum number of bells in the Church is..

**Ans:** 10

**120.** In a software company average of all female employees is 21 years.... The total number of employees could be...

**Ans:** 231

**121.** Bag contains 12 balls out of which some are red....How many red balls were initially in the bag.?

**Ans:** None of the above (2)

**122.**  $\log \tan 1^\circ + \log \tan 2^\circ + \dots \dots \log \tan 89^\circ$

**Ans:** 0

**123.** John procures goods from wholesaler whose balance reads 1200 grams for 1000 grams... What is his overall percentage profit/loss in the whole transaction?

**Ans:** No profit no loss

**124.** Ram is two times as efficient as Shyam. Shyam can complete a job assignment in 15 days..... For how many days Ram and Shyam work together?

**Ans:** 2 days

**125.** The unit digit in the answer to following equation is  $2y = (129 * 256 * 47\$ * 1484)$ . Then the digit in the place of \$ could be

**Ans:** 7

**126.** A & B were the only 2 women participating in a Chess Tournament.... How many total participant were there in the chess tournament?

**Ans:** 13

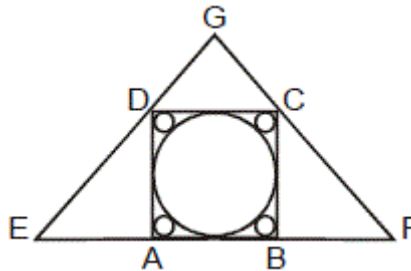
**127.** Rohan speaks truth 60% of the cases and Ramesh speaks truth in 80% of the cases. The probability that they will say the same thing which could be a truth or could be a lie while describing a single event would be

**Ans.** 0.56

**128.** A clock which is running 12 minutes late on a Sunday noon is 16 minutes ahead of the correct time at 12 noon on the next Sunday. When is the clock 8 minutes ahead of the time?

**Ans:** Friday noon

129. In the figure given below ABCD is square and EFG is triangle.... What is the ratio of the area of the larger circle to the sum of the areas of four smaller circles?



Ans:  $1:(68 - 48\sqrt{2})$

130. Baba Baskar has 6 kinds of fruits in a large amount and has many identical boxes to store them.... The maximum number of fruits he can put in the boxes is

Ans: 375

131. The Units digits of

Ans: 7

132. In a train there are as many wagons as the number of seats in each wagon..... find the maximum number of passengers (to an approximate value) in the train that can be accommodate if 20% minimum of seats is always vacant.

Ans: 980

133. A train left station X at A hours B minutes.... What is the number of possible values of A is?

Ans: Zero

134. Consider the equation  $Y = (5!)^{5!} + (10!)^{10!} + (50!)^{50!} + (100!)^{100!}$  The number of zeros at the end of the whole expression would be \_\_\_\_\_

Ans: 120

135. A bouncing ball rebounds to a height equal to one half of height of the previous bounce each time.... find total distance travelled when it hits the ground for the 8th time.

Ans: 47.750

136. A normal pulse rate is define as a range in which nearly 2/3 of individuals fall. As per this standard, what is the normal pulse rate range in an individual before exercise?

Ans: Above 69 and below 80

137. In a selection process pulse rate below 75 per minute before exercise and below 80 per minute after exercise was fixed as the standard..... How many more individuals than before are being selected because of the new standard?

Ans: 40\*

Note: The correct answer is not given among the options.

138. After exercise approximating 40% of the individuals had a pulse rate per minute not higher than

Ans: 84

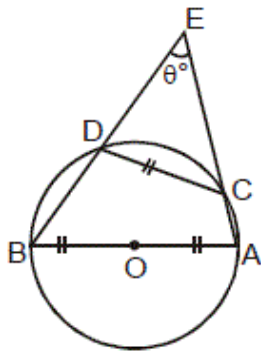
139. If a man walks from A to B and then takes a bike from B to A, he takes 5 hours..... How long would he take to walk from A to B and then back from B to A if he rests at B for 30 minutes?

Ans: 8.5 hours

140. A merchant marks up his goods by 80% and gives discount of 25%.... What is the net profit of the merchant?

Ans: 50%

141. In the figure given below find  $q^\circ$



Ans:  $60^\circ$

142. If  $a = 0$ ,  $b = 1$ ,  $c = 2$  .....  $z = 25$

Then  $(\text{one} + \text{one} + \text{two} + \text{two} + \text{three} + \text{six} + \text{eighty}) * (\text{six} + \text{ten} + \text{one} + \text{two}) / (\text{six} + \text{eighty})$  is

Ans: None of the above

143. In a group of 100 children 32% play hockey, 64% play football and 40% play cricket. In another group of 200 children 20 % play chess, 30% play carom and 40% play ludo whereas 10% play snake and ladder.

Ans: 30

144. The number of passengers travelling in the train while it runs from B to C is

Ans: 318

145. At which station the train is filled to its capacity?

Ans: C

146. If 20% of passengers from A get dropped at C, then how many passengers of station B get dropped at C?

Ans: 14

**147.** The HCF of two expression P and Q is 1. The LCM is

**Ans:**  $P \times Q$

**148.** The number of triangles whose vertices are the vertices of an octagon but none of the sides of such triangles are taken from the sides of the octagon is

**Ans:** 16

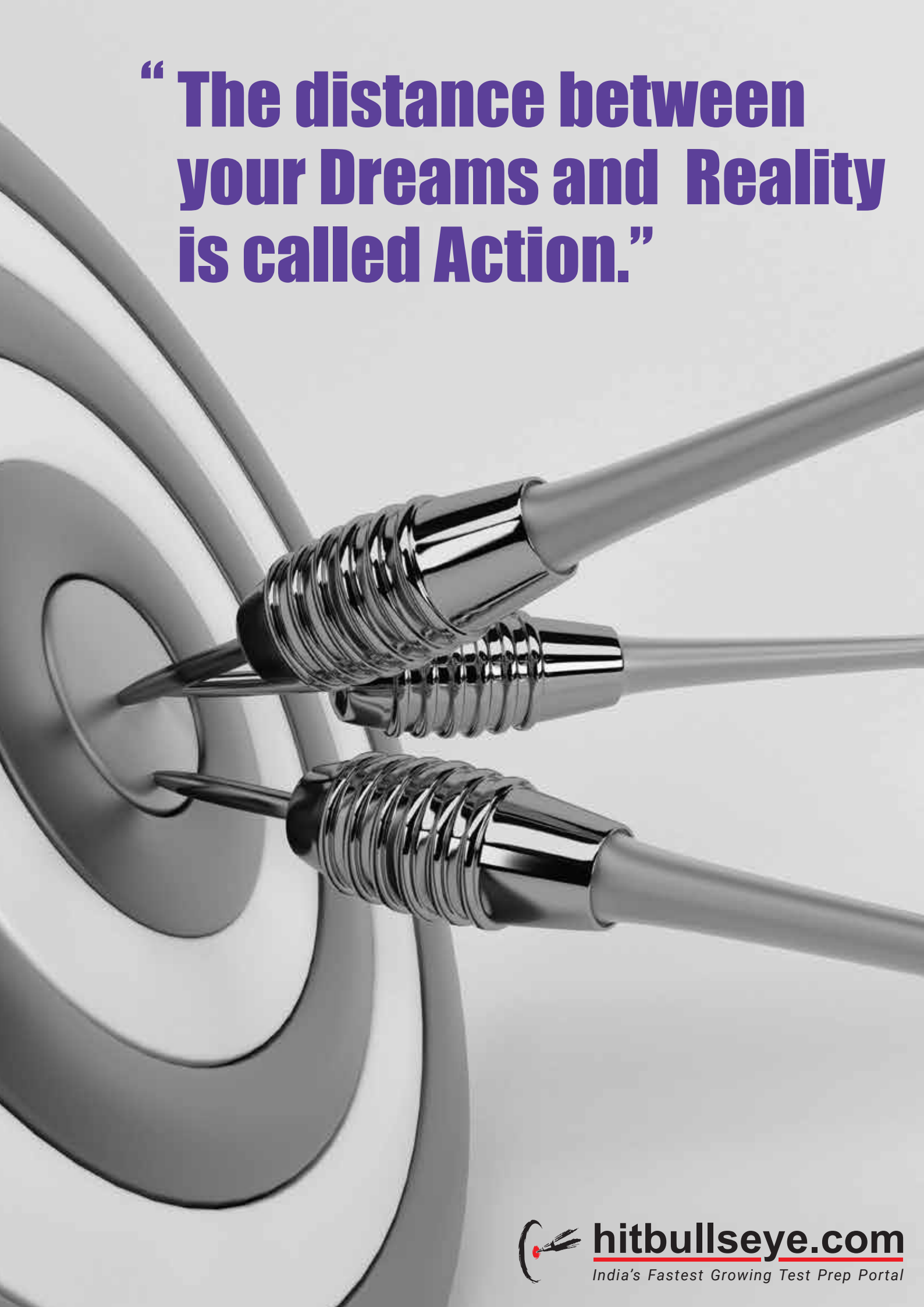
**149.** One side of an equilateral triangle is 24 centimeters. The mid points of its sides are joined to form another triangle whose mid points are in turn joined to form still another triangle.

**Ans:** 144 cm

**150.** A and B entered into a partnership with Capital Investment in the ratio 4 : 5. After 3 months A withdrew  $\frac{1}{4}$  of his capital and B withdrew  $\frac{1}{5}$  of his capital. The gain at the end of 10 months was Rs. 760/-. The share of profit A is

**Ans:** Rs. 330

**“The distance between  
your Dreams and Reality  
is called Action.”**



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